SAMPLING DATA

MEMORANDUM-

DATE: November 16, 1984

TO: File

FROM: Dan Cozza

SUBJECT: Illinois/TDD R05-8303-01E-IL-0197

Chicago/Cook - Lake Calumet Quad - 12400 S. Cottage Grove

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On September 19, 1984, Dave Curnock and the author met with Cliff Gould of the Illinois EPA to view the area in which the above referenced site is allegedly located. 124th Street does not continue east enough to intersect with S. Cottage Grove Avenue, but we investigated the approximate area. Cliff Gould believes the site maybe the same as a U.S. Scrap site of which is also in the approximate area of 124th Street and S. Cottage Grove Avenue.

The IEPA files did not have any site file or preliminary assessment for a site listed as Lake Calumet Quad, nor did the U.S. EPA have an U.S EPA identification number or a CERCLA 103c notification for a site listed as Lake Calumet Quad.

Until more background information is known, i.e., exact location, and name of the site, a site inspection cannot be conducted.

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

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Report	
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Date ______ April 26, 1982

Client

State of Illinois – Attorney General Environmental Division

Project Name

Contamination Survey

Location

U.S. Scrap Corporation Penn Central Corporation Chicago, Illinois



April 26, 1982

State of Illinois - Attorney General Environmental Control Division 188 West Randolph Street Suite 2315 Chicago, Illinois 60601

Attention:

Dr. Howard O. Chinn

STS Project No. 22063

Reference:

Contamination Surveys - U.S. Scrap Corporation and Penn Central

Corporation Sites in Chicago, Illinois

Gentlemen:

We have completed the contamination surveys at the above-referenced sites. These surveys were authorized by the Illinois Attorney General's Office in order to evaluate site specific contamination caused by previous waste disposal operations.

The U.S. Scrap Site comprises approximately 4.5 acres and is located west of South Cottage Grove Avenue; east of the Chicago and Western Indiana Railroad tracks; west of the Metropolitan Sanitary District of Greater Chicago (MSDGC), Calumet Sewage Treatment Plant; and south of the Stainless Processing Company, Inc, property at 11900 South Cottage Grove Avenue.

The Penn Central Site is located southwest of the Michigan Central Railroad in an area known as the Michigan Central Railroad yards. It is in the general vicinity of the U.S. Scrap Site however it is located just east of the MSDGC, Calumet Sewage Treatment Plant property.

The conclusions presented in this report are based upon field exploration work which included drilling eight soil borings and installing eight subsequent monitoring wells (six at the U.S. Scrap Site and two at the Penn Central Site), a geophysical survey, test pits, laboratory testing, and engineering analysis. It should be noted that all chemical analyses were performed by the Illinois Environmental Protection Agency (Illinois EPA). Data which was obtained from the field explorations and laboratory testing programs is included in the Appendix of this report.

State of Illinois - Attorney General STS Project No. 22063 April 26, 1982 Page 2

If you have any questions with regard to the information contained in this report, or if we may be of any further assistance, please do not hesitate to contact our office.

Very truly yours,

STS CONSULTANTS, LTD.

Michael & Sibert, P.E.

Project Geotechnical Engineer

Kathryn R. Huibreatse, P.E.

Project Chemical Engineer

Charles W. Pfingsten, P.E.

Principal Engineer

MGS/ms

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INTRODUCTION

This contamination survey was performed by STS Consultants Ltd (formerly Soil Testing Services, Inc.) for the Illinois Attorney General at sites operated by Steve Martell in Chicago, Illinois. Our work was authorized by Dr. Howard O. Chinn from the Attorney General's Office, and was performed under contractual agreements dated February 1, 1981 and July 1, 1981.

The purpose of this contamination survey was to evaluate the two sites with regard to contamination by previous waste disposal activities and to recommend conceptual remedial action options for site clean-up.

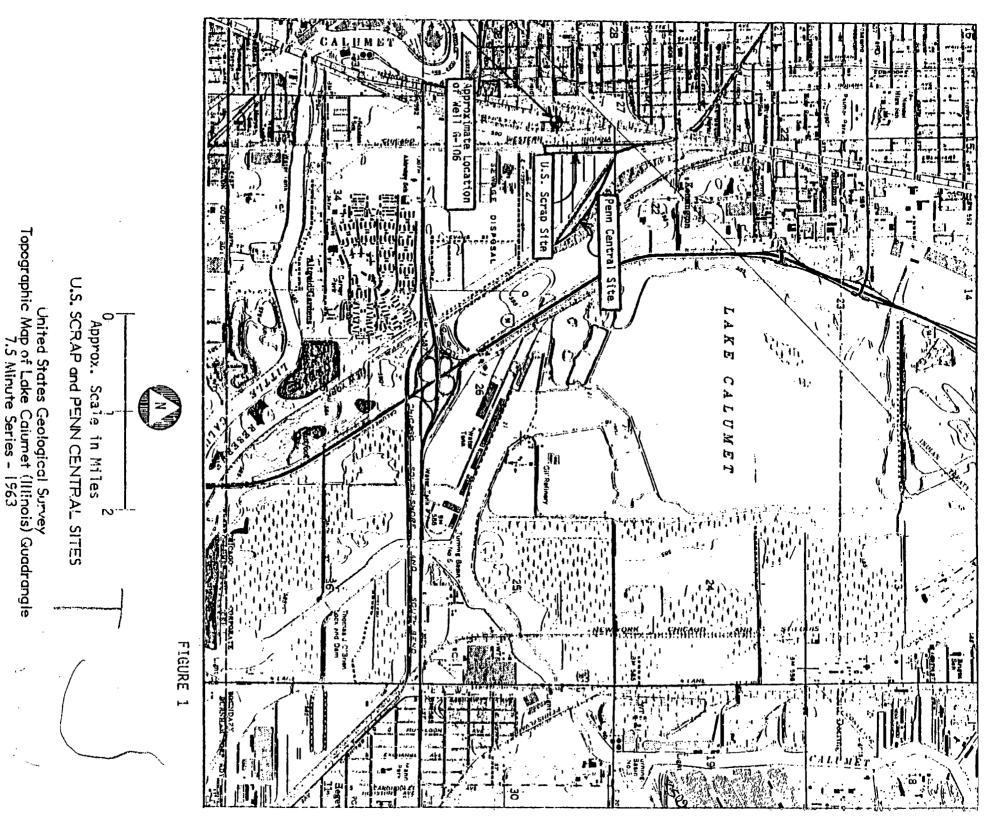
The so-called U.S. Scrap and Penn Central Sites are located in the southern part of Chicago, Illinois at the general locations shown on Figure I, which is a photocopy of the 1963 United States Geological Survey (USGS) map of the Lake Calumet auadrangle. Both sites have apparently extensive histories of waste disposal activities which are described in the enclosed section, SITE HISTORIES.

In order to evaluate the degree of contamination at the two sites, a thorough field exploration program was developed. This program included the following:

1. Drilling eight soil borings (six at the U.S. Scrap Site and two at the Penn Central Site) at the locations shown on Figures 1, 2, and 3.

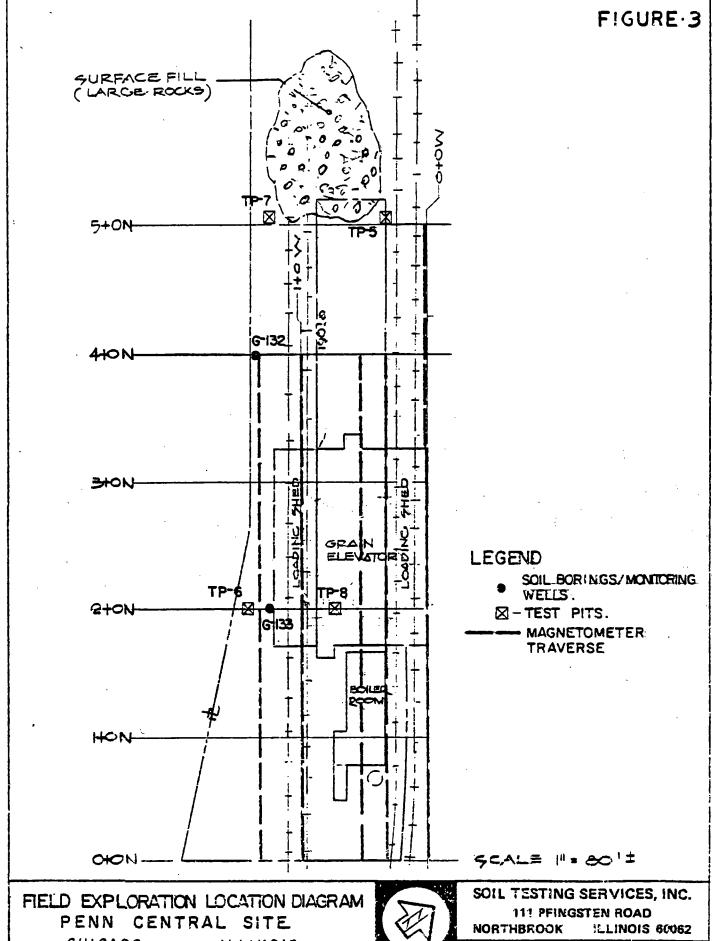
- 2. Installing ground water monitoring wells in each borehole at the locations shown on Figures 1, 2, and 3.
- 3. Performing a magnetometer survey along the approximate traverse lines shown on Figures 2 and 3.
- 4. Excavating test pits at the locations shown on Figures 2 and 3.
- 5. Obtaining ground water samples from the wells, soil samples from the borings, samples from the test pit excavations, and surface samples at the locations shown on Figure 2 for chemical analyses which were performed by the Illinios EPA.

The results of the field exploration program are included in the Appendix. These results were used in developing the conclusions and recommendations which are presented in this report.



(Illinois) Quadrangle

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SITE HISTORIES

STS performed a records and literature search of the U.S. Scrap and Penn Central Sites in order to facilitate the contamination survey. The histories of these sites, so far as we could learn, are described below and are subdivided into the two sites.

U.S. Scrap Site

A malting plant (consisting of at least one large grain elevator, one tall processing building, four 50 ft diameter steel storage tanks, eight smaller diameter concrete silos and several single story brick buildings) existed at the site from sometime prior to 1908 until approximately 1967. Ground surface around the malting plant was fairly level, usually ranging from +8 to +10 Chicago City Datum (CCD).

Between 1938 and 1949, the northernmost sludge ponds at the adjacent MSDGC Sewage Treatment Plant had been constructed.

Between 1949 and 1958, more sludge lagoons were constructed at the MSDGC property, east of those referenced above.

Between 1958 and 1967, the large grain elevator at the malting plant was evidently demolished and the ground surface was raised significantly to form a "hill" in the northern part of the property. It appears likely that rubble from the grain elevator demolition was used to fill the north section of the site.

oncrete tanks, however, still remained. Also, there were several new ponds, averaging 3 ft deep, along the western property line. The ponds toward the south end of the site had apparently been filled by this time. The previously mentioned "hill" on the north end of the site (suspected to contain the remains of the old grain elevator) had a new maximum elevation of +18 CCD which was 4 ft lower than the maximum elevation mentioned in Mr. Porter's 1972 report. What appeared to have happened was that the "hill" had been graded toward the northeast to create a lower and flatter "hill" than had originally existed.

We also reviewed a 1978 air photo which showed conditions similar to those described in Mr. Porter's 1975 report. At the time this air photo was taken, most of the site appeared to be relatively clean and no barrels were noted in the photo. Several semi-trailers did remain on the site however.

Evidently between 1978 and 1980 the site was reused as a disposal area because various pieces of correspondence from the Illinois EPA indicated that as many as 400 55-gal barrels were present on the site during this time.

Field observations made in May of 1981 indicated that the barrels noted in 1980 had been removed. The pit immediately to the north of the old brick buildings (observed in the April, 1973 air photo mentioned previously) still remains in the 1981 observations, as do several ponded areas along the western edge of the site. Numerous small pends containing dark, oily fluids could be seen throughout the site in May of 1981. The only structures remaining on the site in these observations were the eight concrete silos and the abandoned incinerator.

Our research records indicate that as early as July of 1971 the U.S. Scrap Site was considered to present a pollution problem. Various complaints were lodged against U.S. Scrap by MSDGC, and U.S. Scrap was periodically ordered to implement rehabilitation measures on their site. The measures included construction of a containment berm and drainage ditch along the east side of the site which were intended to prevent runoff to the MSDGC property. Even with the remedial construction which was implemented, complaints continue to emanate from the MSDGC until the present time.

Penn Central Site

The Penn Central Site (also known as the Garvey Grain Elevator) has, like the U.S. Scrap Site, gone through a gradual change over the years that it has been in operation. The elevator was in existence prior to 1938 as noted by a 1938 air photo. A drawing which was made in 1965 indicates that the dimensions of the elevator are approximately 152 ft X 50 ft. An associated boiler plant and smoke stack (for drying the grain) existed just to the southeast of the elevator. Railroad tracks serviced the grain elevator, entering the site from the northwest, and continuing beyond the elevator to the southeast.

Air photos which were taken in 1938, 1949, 1958 and 1967 indicate very few topographic changes occurring on the Penn Central Site during this period. It is presumed that the grain elevator was in operation during this time.

An air photo which was taken in April of 1973 indicates that several tank trucks had been deposited northwest of the site and some surface rubble also appeared in this area.

In the 1975 drawing by Porter (entitled: "Proposed Ditch and Pond Construction"), a note was included in the specifications which indicated that "approximately one-half mile to the east of the U.S. Scrap property at the Garvey Grain Elevator Site there is the following required work: remove the fill material along the MSD fence for a width of 10 ft, by a length extending 50 ft beyond the east building wall to 50 ft beyond the west building wall, by a depth down to the water table. The material shall be spread to the north of the building and compacted. The basement of the building shall be pum(p)ed of any hexane pollutants (as tested by MSD chemists) which shall be hauled to an approved treatment site."

By 1978, the Garvey Grain Elevator Site had apparently been covered (except for the elevator itself) and leveled because no tankers or other surface debris were noted in the air photo.

Field observations made of the site in August of 1980 indicated that there were small piles of rubble north of the elevator which still existed at that time. These piles of rubble were also observed in May of 1981 which was after the elevator had been demolished.

The grain elevator was demolished by blasting in the fall of 1980. It was reported that much of the debris from the demolition was hauled off the site; however, there was a higher area noted afterwards which was approximately 4 to 6 ft above the grades observed prior to the demolition. This could have been the result of redistributing the surface debris from the demolished elevator, as well as covering it with a soil cap as was observed in May of 1981.

Summary

In summary, various waste disposal activities were apparently performed over the years at both the U.S. Scrap and the Penn Central Sites. Available documentation indicates that these activities began as early as the late 1960's. Many of the disposal activities reportedly concerned liquid waste which was pumped into the basements of the Garvey Grain Elevator and the grain elevator at the U.S. Scrap Site as well as into various ponds constructed on both sites. Reports made by several people indicate that 1) holes were dug in the ground, oily waste was disposed of in the holes and they were covered, 2) underground tanks were used to collect the waste, and 3) actual tanker trucks were buried. We did not find any buried tanks or trucks in our exploration however, and could not therefore confirm any of these observations.

The MSDGC was concerned about the problem in the early 1970's or late 1960's and there were many complaints and inspections made of both sites after that time.

A pit which was noted by Mr. Kenneth Kastman of STS in August of 1980 at the U.S. Scrap Site was approximately 50' X 50' in size and the liquid within it had an oily, dark brown appearance. This could be the same pit which was noted in the 1973 air photo. Mr. Kastman's observations indicated that bubbles could be seen rising to the surface at the north end of this pit. Unverified information exists which indicates that this pit could be as deep as 30 ft.

GEOLOGY AND HYDROGEOLOGY

The potential for movement of contaminants into the ground water system is related to the geologic and hydrologic conditions existing in that particular area. Therefore, we are presenting background information relating to the geology and hydrology of the area in which the sites are located and, to the extent possible, of the subject sites themselves.

Geology (Ref. 1)

The uppermost bedrock unit in Northeastern Illinois is comprised primarily of Silurian Age dolomitic limestone of the Niagaran Series. This bedrock is overlain by as much as 400 ft of glacial drift deposited during the Pleistocene Age by the Lake Michigan lobe of the Wisconsinan glacial advance, the last major episode of glaciation in the Midwest. The glacial sediments were deposited in the forms of hills, moraines, and outwash deposits. Once the glaciers retreated, lacustrine deposits from ancient Lake Chicago, the predecessor of Lake Michigan, accumulated. These glaciolacustrine deposits consisted primarily of silt and silty clay layers containing thin beds of more plastic clay with local lenses of sand along former beach ridges. In addition to the beach ridges, coarse granular material was deposited in spits and bars. It is these more granular deposits through which the uppermost ground water generally flows. In some areas, however, such as at the subject sites, these granular deposits have either been largely removed or they do not exist. In such cases, if fill materials have been placed, the uppermost ground water may flow through them.

The U.S.Scrap and Penn Central Sites are located on the glacial Lake Chicago plain. At these sites, the Niagaran dolomite is overlain by approximately 65 ft of glacial till deposits. The clayey till is in turn overlain by near surface fill materials. These fill materials appear to have been randomly placed and therefore they vary considerably in physical and hydraulic characteristics.

Hydrogeology (Ref. 2)

Regionally, the ground water resources in Northeastern Illinois and Northwestern Indiana are developed in four aquifer systems; I) the unconsolidated sand and gravel deposits in the glacial soils, 2) the Silurian Dolomite aquifer underlying the unconsolidated deposits, 3) the Cambrian-Ordovician aquifer located in the deeper sandstones and 4) the Mt. Simon aquifer in the deepest formations of the Cambrian Age. It is possible that the unconsolidated sand and gravel aquifer and the Silurian Dolomite aquifer are, in some areas, hydrologically interconnected, but they are usually separated from the underlying Cambrian-Ordovician and Mt. Simon aquifers by the Maquoketa Shale formation. The Maquoketa Shale is a relatively impervious, clayey, formation and acts as an aquitard or even an aquiclude in the Northeastern Illinois area.

It can be seen, therefore, that the upper aquifers (unconsolidated glacial deposits and Silurian Dolomite) are of primary concern with regard to contamination by surface and/or near surface sources. Should contamination occur, it will probably be relegated to these aquifers beause its downward movement into the underlying Cambrian-Ordovician and Mt. Simon aquifers will be virtually prevented by the Maquoketa Shale. Studies conducted in 1957 indicated that approximately 60% of the ground water which was used in the Chicago area (at that time) came from the sand and gravel and Silurian Dolomite aquifers.

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FIELD EXPLORATION PROGRAM

Our subsurface exploration programs at the subject sites consisted of performing several operations to establish subsurface soil and ground water conditions. These operations included drilling soil borings, installing ground water monitoring wells, excavating test pits, and performing a geophysical survey.

Soil Borings

Eight soil borings (G-101 through G-106, G-132 and G-133) were performed by STS at the locations shown on Figures 1, 2 and 3. All of the borings were extended into the clay material which was encountered below the surface fill. One boring (G-105) was extended through the clay and into bedrock which was encountered at a depth of approximately 65 ft.

Boring numbers G-101 through G-105, G-132 and G-133 were performed with a truck-mounted rotary drill rig that utilized various cutting bits and drilling fluid to advance the boreholes. This drilling fluid consisted of clean water which was used in all cases except for a small amount of Revert (an organic additive) which was utilized in Boring G-105 at a depth of 66 ft due to excessive cave-in of the weathered bedrock or gravel/boulder mix that was encountered at that depth. It should be noted that 10 ft of steel surface casing (4 inches in diameter) was necessary in each of these boreholes to maintain an open hole in the upper section which was within the fill zone.

Boring number G-106 was performed with a truck mounted auger drilling rig which utilized continuous flight augers to advance the boreholes. No surface casing or drilling fluid was required to maintain an open borehole.

Representative soil samples were obtained by means of the split-barrel and shelby tube sampling procedures in general conformance with ASTM Specifications D-1586 and D-1587, respectively. In the split-barrel sampling procedure, a 2 inch O₂D₂ split-barrel sampler is driven into the soil a distance of 18 inches by means of a 140 lb hammer falling 30 inches. The Standard Penetration Resistance Value is the number of blows per foot of penetration for the final 12 inches of driving. This value can be used to provide a qualitative indication of the in-place relative density of cohesionless soils. This indication is qualitative since many factors can significantly affect the Standard Penetration Resistance Value and prevent direct correlation of results obtained by drill crews using different drill rigs, drilling procedures, and hammer-rod-spoon assemblies. In the shelby tube sampling procedure, thin-walled, steel seamless tubes with sharp cutting edges are pushed hydraulically into the generally cohesive soils and relatively undisturbed samples are obtained.

A field log of the soils encountered in each of the borings was maintained by the drill crew and by the STS on-site geologist (Mr. John Crowley). All soil samples obtained from the drilling operations were sealed immediately in the field and brought to our laboratory for further examination and testing. The drill crew and geologist maintained regular contact with the office engineering personnel so that proper evaluation of the soil conditions and appropriate drilling procedures could be maintained throughout the field exploration program.

Ground Water Monitoring Wells

In order to characterize the local ground water system, STS installed 2 inch diameter PVC monitoring wells at each boring location. As-built monitoring well construction details are shown on the drawings which are included in Appendix B.

Briefly, each of the monitoring wells consisted of either a 5 ft or 10 ft section of 2 inch PVC slotted well screen with a No. 10 slot (slot size = 0.010 inches). The screens were each placed at the depths shown on the individual well diagrams. Surrounding the screens, gravel filter material was placed in order to allow ground water to enter the screen area. Above the filter, a bentonite pellet seal was installed in order to minimize downward migration of surface water into the slotted screen sections.

All of the wells except G-105 were installed at depths commensurate with the surface fill/clay interface. Monitoring well G-105, however, was installed to a depth of 69.7 ft in order to determine if the water in the bedrock aquifer was hydraulically connected to the water in the upper fill. The bentonite seal was placed at a depth and in a manner so as to preclude, as much as possible, downward migration of surface water and ground water from the upper fill into the screened interval. In addition, steel casing was advanced through the near-surface fill material to minimize seepage (and subsequent cross-contamination) of the upper ground water into that contained in the bedrock aquifer.

The soil borings and the ground water monitoring wells were installed between June 22, 1981 and June 26, 1981.

Test Pits

On June 29, 1981, nine test pits were excavated at the locations shown on Figures 2 and 3. The purpose of these test pits was to, in an expedient and cost effective manner, establish the depth and character of the various fill areas on the two sites. The test pits were excavated utilizing a backhoe which was rented from The Edward Gray Corporation, 12233 Avenue O, Chicago, Illinois 60633. The backhoe operations were observed by STS Geologist Mr. John Crowley. The results of the test pit excavations are indicated on the test pit logs which are enclosed in Appendix C.

Geophysical Survey

Geophysical exploration methods are often used to provide continuous, qualitative data on subsurface characteristics. In these methods, areas of buried waste and zones of variable soil conditions ('anomalies') occur which identify the zone boundaries. On this project, ground probing radar and magnetometer surveys were proposed because of their general ability to detect such anomalies.

A ground probing radar system involves generating an electromagnetic pulse at the ground surface. Reflections of this pulse from surface and subsurface interfaces indicate travel times which can then be used to calculate the depths of the reflecting interface(s).

The penetration depth of the ground probing radar is generally dependent upon the wave attenuation characteristics of the near surface soils. This attenuation is related to the effective resistivity of the earth material being probed. Generally, the radar penetration depth is reduced by low resistivity subsurface materials (such as clay), whereas higher resistance materials (such as sand) allow for much greater depth of penetration. Resistivity surveys at both sites were therefore performed in order to evaluate the feasibility of utilizing ground probing radar.

The magnetometer is an instrument which measures magnetic anomalies caused by variations in substrata. The normal magnetic field at any point on the earth's surface has a specific geomagnetic inclination and intensity. In the Chicago area, this inclination is approximately 74° N with a total intensity of approximately 57,000 gammas. Variations in conditions below the earth's surface can cause anomalies in both the geomagnetic intensity and inclination, which can be measured using magnetometer instruments. These anomalies can be caused by iron objects, deposits of metallic refuse, and certain rocks and soil containing sufficient amounts of metallic minerals.

Magnetometer surveys were performed at both sites on pre-determined grids and the continuous readings of the magnetometer instrument were recorded at specified distance intervals.

Data from the geophysical survey is included in Appendix D.

LABORATORY TESTING PROGRAM

An extensive laboratory testing program was performed consisting of 1) physical analyses to accurately classify the fill and soil samples obtained in the borings and 2) chemical analyses to determine the concentrations of various chemicals in the ground water, soil, and near surface fill materials.

Physical tests of the fill and soil samples were performed by STS in its Northbrook, Illinois laboratory. The chemical testing was performed by the Illinois EPA. The results of the chemical tests are indicated on Tables 2 through 6.

Physical Analyses

All of the samples obtained from the boring operations were visually classified in accordance with the Unified Soil Classification System. The symbols according to this system of classification are shown in parentheses following the descriptions on the boring logs. It should be noted that much of the material encountered in the soil borings consists of non-soil fill materials which are described on the boring logs in as thorough manner as possible.

Most of the soil samples obtained in the split-barrel and shelby tube samplers were subjected to water content tests and the clay samples were subjected to hand penetrometer tests as well. In the hand penetrometer test, the unconfined compressive strength of a cohesive soil is estimated, to a maximum value of 7 tons per square foot

(tsf), by measuring the resistance of the sample to a small, spring-calibrated plunger.

Unit dry weight tests were also performed on several of the soil samples.

Four samples of silty clay obtained in the shelby tube samplers were chosen for permeability tests. These samples were considered to be representative of the silty clay strata separating the surface fill materials from the underlying bedrock. The vertical permeability (also known as the vertical hydraulic conductivity) determined from these tests is considered to be the ability of the soil (clay) to transmit water (or leachate) from higher to lower elevations.

The results of all the tests performed by the STS laboratory are indicated on the enclosed boring logs, test pit logs, and permeability summary sheets (Appendices A, C and E, respectively).

Chemical Analyses

In addition to the physical tests described above, chemical analyses were performed by the Illinois EPA on:

1. Ground water samples obtained from the monitoring wells in June of 1981 (Tables 2 and 3).

- 2. Ground water samples obtained from the monitoring wells in October of 1981 (Tables 2 and 3).
- 3. Soil samples obtained from the borings (Table 4).
- 4. Samples of surface solid and liquid materials (Table 5).
- 5. Solid and liquid samples obtained from the test pit excavations (Table 6).

All of these samples were subjected to tests to determine concentrations of various inorganic and organic chemical consitutents as shown on the tables.

SUBSURFACE CONDITIONS

This section of the report describes the fill and underlying soil and bedrock conditions that were noted in the soil borings and test pits. It should be reiterated that soil borings G-101 through G-105 were performed at the U.S. Scrap Site, as were test pits TP-1 through TP-4 and TP-9. Boring G-106 was performed approximately 1500 ft west of the U.S. Scrap Site. Borings G-132 and G-133 as well as test pits TP-5 through TP-8 were performed at the Penn Central Site. The specific fill and soil conditions are indicated on the individual boring and test pit logs (Appendices A and C).

Fill Conditions

U.S. Scrap Site

The fill conditions noted in the borings which were performed at the U.S. Scrap Site indicated materials which differed substantially from one boring to another. In Boring G-101, silty clay fill was encountered from the ground surface at elevation +15.7 CCD to a depth of 2 ft (+13.7 CCD). This silty clay fill contained traces of sand, gravel and roots and was brown, gray and black in color. Below the silty clay fill, Boring G-101 encountered tar-like material which extended from a depth of 2 ft to a depth of 14.0 ft (+1.7 CCD). This material was generally observed to be black with some rusty brown coloration from 9 to 14 ft. The material was saturated (based on field observation)

throughout its depth and contained wood fragments from 2 to 7 ft and cinders and gravel from 9 to 14 ft. A strong organic odor was noted in the material from 2 to 7 ft. A strong turpentine-type odor was noted from 7 to 9 ft.

Boring G-102 encountered clayey topsoil from ground surface (\pm 18.2 CCD) to a depth of 1.5 ft (\pm 16.7 CCD). This topsoil material was organic and contained traces of sand and roots. It was dark brown in color. Below the clayey topsoil, Boring G-102 encountered paint sludge to a depth of 4 ft (\pm 14.2 CCD). Below the paint sludge, black sand and cinder fill material was encountered to a depth of 5.5 ft (\pm 12.7 CCD).

Boring G-103 encountered miscellaneous fill materials from ground surface (+13.7 CCD) to a depth of 1.5 ft (+12.2 CCD). These materials were dark brown and light brown in color and emitted no noticeable odor. Gray, gravelly fill with wood fragments was encountered from 1.5 ft to a depth of 5 ft (+8.7 CCD). From this depth to a depth of 10 ft (+3.7 CCD) granular fill (which was saturated with a fluid having a strong organic odor) was encountered. This fill was black in color and was very dense to extremely dense in consistency.

Boring G-104 encountered clayey topsoil with traces of wood, slag and paint residue from ground surface (+15.7 CCD) to a depth of 0.5 ft (+15.2 CCD). This topsoil material had a paint-like odor. Below this material, sandy and gravelly fill material was encountered to a depth of 1 ft from ground surface (+14.7 CCD). This material also had a strong paint-

like odor and had a pH of between 8 and 9 as measured in the field using pH paper. From I ft to a depth of 2 ft (+13.7 CCD), tar-like material was encountered which contained traces of gravel, wood, and bricks. Again, this material had a strong paint-like odor. Beneath the tar-like material, black and gray sandy and gravelly fill material was encountered which extended to a depth of 4.5 ft (+11.2 CCD). This material contained traces of bricks and wood, was very dense in consistency, had a strong paint-like odor, and had a pH of between 9 and 10 as measured in the field using pH paper. From 4.5 ft to a depth of 9 ft (+6.7 CCD) sandy, tar-like fill material was encountered. This material was black and gray, medium dense, and was observed to be saturated at a depth of 6 ft from ground surface. The tar-like material had a strong turpentine-like odor.

Boring G-105 encountered black, very dense cinder fill material from ground surface (+15.2 CCD) to a depth of 2 ft (+13.2 CCD). This material had a strong paint-like odor. From a depth of 2 ft to a depth of 7 ft (+8.2 CCD) red and black brick fill was encountered which contained little clayey topsoil. The material had a strong paint-like odor.

Test pit TP-I encountered miscellaneous fill materials consisting primarily of wood, metal, sand, silt, large concrete blocks and metal containers from the ground surface to a depth of 8 ft. This fill material exhibited a strong chemical odor.

Test pit TP-2 encountered miscellaneous fill materials consisting primarily of wood, metal, sand, silt, large concrete blocks and metal containers from the ground surface to a depth of 9 ft. It should be noted that an oily liquid substance was encountered at 6 ft in depth and that the entire test pit exuded a strong chemical odor.

Test pit TP-3 encountered cinder and slag fill from ground surface to a depth of 1.5 ft. This material was black, loose and saturated. From 1.5 ft to 3 ft in depth, an oily, saturated material was encountered. At 3 ft the test pit encountered hard white slag and terminated at this depth.

Test pit TP-4 encountered miscellaneous fill materials consisting of sand, gravel, concrete and wood which were saturated at a depth of 3.5 ft. This layer extended from ground surface to a depth of 4 ft. At 4 ft, brown and black silty clay was encountered. The test pit ended at this depth.

Test pit TP-9 encountered miscellaneous fill material consisting primarily of wood, concrete, steel drums, metal, etc. from ground surface to a depth of 7 ft at which point the test pit was terminated.

Background Soil Boring G-106

The only fill material which was encountered in Boring G-106 was from ground surface (+9.9 CCD) to a depth of 1 ft. This fill material was comprised of black silt and cinders and was loose in consistency.

Penn Central Site

Boring G-132 at the Penn Central Site encountered sandy and gravelly crushed stone fill from ground surface (+19.8 CCD) to a depth of 6 ft (+13.8 CCD). This material was light gray and was medium dense to very dense. From 6 ft to a depth of 7 ft (+12.8 CCD), wood was encountered and no sample could be recovered. From 7 ft to a depth of 9 ft (+10.8 CCD), black and gray clay fill was encountered which contained traces of gravel, sand and wood. This material was very stiff and had a very stong paint-like oder. From 9 ft to a depth of 12 ft (+7.8 CCD), black oily cinders were encountered which were in a medium dense condition. These materials appeared to be saturated with oil or a similar liquid. From 12 ft to a depth of 13.5 ft (+6.3 CCD), black silty organic clay was encountered which was stiff to very stiff.

Boring G-133 encountered clayey topsoil from ground surface at +17.4 CCD to a depth of 2 ft (+15.4 CCD). This material was dark brown and contained little wood and trace roots. From 2 ft to a depth of 7.5 ft (+9.9 CCD), saturated wood fragments were encountered. These wood fragments were noted to be black in color. From 7.5 ft to 9.5 ft (+7.9 CCD), saturated gravel fill was encountered. This material was light gray and extremely dense. From 9.5 ft to 12 ft (+5.4 CCD) sandy clay fill (slightly tar-like) was encountered. This material was black and contained traces of wood, gravel and roots. It was very stiff and was noted to have a paint-like odor.

Test pit TP-5 at the Penn Central Site encountered silty topsoil and brick fill extending from ground surface to a depth of 1 ft. Below this material, and extending to a depth of 2 ft, the test pit encountered wood which appeared to be saturated with black colored fluid. The test pit was terminated at a depth of 2 ft.

Test pit TP-6 encountered extremely dense concrete rubble fill from ground surface to a depth of 4 ft at which point the test pit was terminated.

Test pit TP-7 encountered miscellaneous fill consisting of wood and concrete from ground surface to a depth of 3 ft at which point the test pit was terminated.

Test pit TP-8 encountered miscellaneous fill materials consisting primarily of concrete, rebar, metal and silty clay from ground surface to a depth of 9 ft at which point the test pit was terminated.

Soil Conditions

U.S. Scrap Site

Boring G-101 encountered silty clay at a depth of 14 ft (+1.7 CCD). This material was gray and very stiff. The boring terminated at a depth of 17 ft.

Boring G-102 encountered light brown silty clay from a depth of 5.5 ft (+12.7 CCD) to a depth of 7 ft (+11.2 CCD). This material was stiff and had traces of gravel and sand. From 7 ft to a depth of 12.5 ft (+5.7 CCD), brown and gray silty clay was encountered. This material had traces of gravel, sand and shale and was noted to be very stiff to hard. From 12.5 ft to a depth of 15 ft (+3.2 CCD) hard gray silty clay was encountered. The boring terminated at 15 ft.

Boring G-103 encountered natural silty clay at a depth of 10 ft (+3.7 CCD). This material was brown and gray, very stiff and contained traces of gravel, sand and shale. The layer was noted to have a strong chemical odor and extended to a depth of 17 ft (-3.3 CCD). From 17 ft to a depth of 19.5 ft (-5.8 CCD) brown and partly gray, hard silty clay was encountered. This clay exhibited slightly higher plasticity than most of the other clay samples obtained in the program. From 19.5 ft to a depth of 22 ft (-8.3 CCD), Boring G-103 encountered very stiff, silty clay. This boring terminated at a depth of 22 ft.

Boring G-104 encountered natural silty clay at a depth of 9 ft (+6.7 CCD). This silty clay contained traces of gravel and sand, was brown and gray and was very stiff. It exhibited a slight paint-like odor and extended to a depth of 13 ft (+2.7 CCD). At 13 ft, gray, very stiff silty clay was encountered which then extended to a depth of 17 ft (-1.3 CCD). The boring terminated at a depth of 17 ft.

Boring G-105 encountered natural clay at a depth of 7 ft (+8.2 CCD). This material was sandy in nature and contained little silt. Its color was brown and gray and it was noted to be stiff in consistency. It was also noted to have a moderate paint-like odor. The sandy clay extended to a depth of 14 ft (+1.2 CCD) at which point brown and gray, hard silty clay was encountered. This material extended to a depth of 18 ft (-2.8 CCD). From 18 ft to 31 ft (-15.8 CCD), Boring G-105 encountered gray, very stiff silty clay containing traces of gravel, sand and shale. At 31 ft, hard gray silty clay was encountered which contained little sand and traces of gravel and shale. This material extended to a depth of 59.5 ft (-44.3 CCD). At this depth, gray clayey silt was encountered. This silt was extremely dense and contained traces of gravel, sand and shale. The silt was noted to be in a moist condition and extended to a depth of approximately 66 ft (-50.8 CCD) whereupon broken bedrock and/or boulders were encountered. These materials continued to a depth of 68 ft (-52.8 CCD) at which point dolomitic bedrock was encountered. The boring terminated at this depth.

Background Soi! Boring G-106

Boring G-106 encountered natural soil materials at a depth of 1 ft (± 8.9 CCD) from ground surface. These materials consisted of medium to coarse, rust colored sand which extended from a depth of 1 ft to a depth of 1.5 ft (± 8.4 CCD). From 1.5 ft to a depth of 3 ft (± 6.9 CCD) brown, gray and black silty clay was encountered which contained little topsoil. The rust colored medium to coarse sand was again encountered from a depth of

3 ft to a depth of 3.5 ft (+6.4 CCD). From 3.5 ft to a depth of 8 ft (+1.9 CCD), brown and gray, stiff to very stiff silty clay was encountered. This material was noted to contain traces of gravel, sand and shale. At 8 ft, gray silty clay was encountered which was very stiff in consistency and contained traces of gravel, sand and shale and continued to a depth of 14.5 ft (-4.6 CCD), at which point the boring was terminated.

Penn Central Site

Boring G-132 at the Penn Central Site encountered natural silty clay at a depth of 13.5 ft (+6.3 CCD). This clay was brown and gray, very stiff and contained traces of gravel, sand and shale. It should be noted that there was a layer of black, silty organic clay above the aforementioned clay which was encountered from a depth of 12 ft (+7.8 CCD) to a depth of 13.5 ft (+6.3 CCD). The clay which was encountered at 13.5 ft extended to a depth of 19.5 ft (+0.3 CCD). At this level, hard, gray silty clay was encountered which extended to a depth of 25 ft (-5.2 CCD). The boring terminated at this depth.

Boring G-133 encountered natural clay at a depth of 12 ft (+5.4 CCD). This clay was silty and contained traces of gravel, sand and shale, it was noted to be brown, gray and black, and was stiff to very stiff. A paint-like odor was noted in the material which extended to a depth of 14 ft (+3.4 CCD). From 14 ft to a depth of 17 ft (+0.4 CCD) grayish brown, stiff silty clay was encountered which contained traces of gravel, sand and shale; this material had a slight paint-like odor. From 17 ft to 19 ft (-1.6 CCD) grayish brown, very stiff to hard silty clay was encountered. From 19 ft to 25 ft (-7.5 CCD), brownish gray, very stiff to hard, silty clay was encountered. The boring terminated at 25 ft.

GEOPHYSICAL SURVEY RESULTS

The resistivity survey indicated that soils in the upper 15 to 30 ft of the <u>Penn Central Site</u> had resistivities varying from 5 umhos/ft to 400 umhos/ft (generally typical of silty and clayey soils). Upon evaluation of this information, it was determined that ground probing radar would be ineffective for determining the location and/or depth of subsurface discontinuities or buried materials. The resistivity data obtained at this site is summarized in Appendix D.

In addition to the resistivity survey, a magnetometer survey was performed on June 29, 1981. This survey consisted of five traverses of the site, obtaining readings every 2 to 3 ft along the traverse length of 400 ft. The survey indicated that a magnetic anomaly occurred within the area of the razed loading shed and grain elevator at the Penn Central Site. Data from this survey is also included in Appendix D.

The areas of major magnetic anomalies at the Penn Central Site occurred between Station i+50N and Station 3+00N and between Station I+00W and Station I+33W. Subsequent test pit excavations indicated the presence of rubble fill, consisting of reinforcing rods, electrical conduit, and other metallic debris within a clay matrix. The test pits at the Penn Central site were excavated to a maximum depth of 8.0 ft (due to digging difficulty).

At the <u>U.S. Scrap Site</u>, four locations were explored using the resistivity survey. At these locations, soil resistivities ranging from 30 umhos/ft to 440 uhmos/ft (typical of silty and clayey soils) were calculated. It was again determined that ground probing radar would not be feasible at this site. The results of the resistivity survey are again summarized in Appendix D.

On June 29, 1981, a magnetometer survey was performed at the U.S. Scrap Site. It consisted of two traverses, one approximately 1,100 ft in length and a second approximately 900 ft in length. Magnetic anomalies along these traverses were minor and were likely related to previous industrial activities. They occurred primarily where the traverses extended across the mound of rubble fill and refuse near the north end of the site. Test pits performed in this area indicated that metallic and nonmetallic fill, including scrap metal, broken concrete, wood and soil, occurred throughout the rubble area.

GROUND WATER LEVELS

Ground water levels were observed during and after drilling and at the times that samples were obtained by the Illinois EPA for chemical analysis. The observations made by the STS drill crew are noted on the individual boring and test pit logs and the observations made by the Illinois EPA are indicated on Table 1 (next page).

U.S. Scrap Site

The data obtained from observations in wells G-101 to G-104 indicate that the uppermost water level at the U.S. Scrap Site appears to be perched within the near-surface fill material. Generally, ground water was encountered between +7 CCD and +15.5 CCD in these wells. It should be noted that the water levels which were observed by the Illinois EPA during the first sampling operation in June of 1981 were consistently 1.5 ft to 3.4 ft higher than those that were noted during sampling operations of October, 1981. This can probably be attributed to the fact that June is traditionally a wetter time of the year than October, causing higher water levels in the perched aquifer. These elevation fluctuations can have a significant impact on the uppermost ground water quality since many differences in fill type were noted with depth at the different well locations.

TABLE 1

Ground Water Levels in the Monitoring Wells
As Noted By the Illinois EPA While Sampling

Elevations (CCD) Top of Well Ground Water Levels Number Site Casing Surface June, 1981 October, 1981 12.8 U.S. Scrap 16.8 15.7 10.6 G-101 15.5 G-102 18.5 18.2 13.8 G-103 14.2 13.7 10.4 7.0 G-104 16.7 15.7 13.0 11.5 -16.1 G-105 16.1 15.2 -13.1 Background Well G-106 9.9 8.1 11.0 Penn Central G-132 20.4 19.8 17.7 15.9 15.3 G-133 8.2 18.0 17.4

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At both sampling times (in June and October), the water level readings indicated that Well G-102 was in the area of highest water level. The water level then sloped downward toward G-101, G-103 and G-104. It is hypothesized that there is a ground water mound which has formed within the fill in the vicinity of Well G-102 (this is also in the vicinity of the surface water lagoons). Ground water appears to be flowing radially downward away from this mound, based upon the information which we have available. A diagram of ground water conditions and flow lines which depict this mounded condition is shown on Figure 4.

Concerning the water levels in Well G-105, it should be remembered that this well(screen) is sealed within the bedrock, and water level readings made in the well will not be representative of water levels in the upper fill material. Water level readings made in G-105 indicated that the water which was contained within the bedrock at the time the readings were made generally had a piezometric level of between -13.1 CCD and -16.1 CCD. Since the piezometric level of the water in the bedrock is generally about 25 ft lower than that which is within the fill, there will be a tendency for downward vertical flow of the water in the fill toward the bedrock aquifer. Our permeability tests on the clay which underlies the fill, however, indicate that it (the clay) has a very low vertical permeability (on the order of 10^{-8} cm/sec) and that downward flow through the clay mass will probably be very slow.

Ground water observations in Well G-106 indicated a water level at approximate elevation +8 CCD.

Penn Central Site

Water levels which were observed during the sampling operations in June of 1981 by the Illinois EPA indicated that the water level at the Penn Central Site was between elevation +17.7 CCD in Well G-132 and +15.3 CCD in Well G-133. In the October 1981 sampling operations, the water levels were noted to be +15.9 CCD in G-132 and +8.2 CCD in G-133. We feel that the significant drop in the water level at G-133 can be attributed to the fact that, again, October is a drier time of the year than June and the water level in G-133 dropped and dissipated into the gravel fill layer that was noted to exist between +7.9 CCD and +9.9 CCD.

While there is not enough data at the Penn Central Site to discern the direction of ground water flow, one would generally conclude that the regional flow would be somewhat in the direction of Lake Calumet (and hence, Lake Michigan). There could be localized differences, however, depending upon topography, recharge and discharge areas, and subsurface fill conditions. Since the ground water level at the Penn Central Site is at or above the water level at the U.S. Scrap Site, we do not expect that there is direct flow from the U.S. Scrap Site to the Penn Central Site.

CHEMICAL ANALYSES

In conjunction with this contamination survey, the Illinois EPA obtained soil, water, and other liquid and solid samples from the U.S. Scrap and Penn Central Sites at various times for chemical analyses. The results of these analyses are indicated on Tables 2 through 6. The types of samples obtained, the table on which the analytical results are shown, and the month and year in which the samples were obtained are indicated below:

Type of Sample	Table No(s).	Mbnth/Year Sample Obtained
Ground water samples from wells	2, 3	June, 1981
Ground water samples from wells	2, 3	October, 1981
Soil samples from borings	4	June, 1981
Samples of surface solid & liquid material	ls 5	June, 1981
Samples from test pit excavations	6	June, 1981

In order to aid in evaluating the analyses performed on ground and surface water samples, the Illinois Attorney General's Office has tabulated the standards set forth in the Illinois Pollution Control Board Chapter 3: Water Pollution Regulations. These standards are shown on Table 7. This table was transmitted to STS by the Illinois Attorney General's Office on January 4, 1982, and was the basis for evaluating results for most of the inorganic parameters analyzed.

Quantitative standards for all of the chemicals analyzed have not yet been established (i.e. specific limits have not been established for most of the organic parameters measured during this project). Some guidelines are available through Water Quality Criteria documents developed by the US Environmental Protection Agency. However, these are guidelines only, rather than binding standards.

Similarly, specific concentration limits have not been developed for contaminated <u>soils</u>. These samples as well as the selected <u>waste material samples</u> collected during this project are more likely to be evaluated using criteria established under the Resource Conservation and Recovery Act (RCRA) (Ref.3). RCRA identifies as hazardous a variety of materials which either exhibit hazardous characteristics (defined by RCRA as corrosivity, ignitability, reactivity or toxicity) or which contain measurable concentrations of specified hazardous compounds.

Therefore, the evaluation of results obtained in this study is both objective and subjective. When considering organic constituents, it must be recognized that most of the contaminants analyzed are not naturally occurring at the levels measured. Secondly, analytical techniques for these chemicals are very accurate, often to the parts per billion level. Concentrations which are presented in the parts per million range indicate that significant amounts of these chemicals are present.

TABLE 2

Chemical Analyses* Ground Water Monttoring Wells U.S. Scrap Site

	8	g:	101	q.	102	43	103	ም	104	ç,	-:05	G-106	
Chemical Constituent (pom)	Optained	5/23/81	10/27/81	6/25/81	10/27/81	6/29/91	10/27/81	6/24/81	18/27/01	6/24/81	10/27/81	10/27/81	Ē
Altonatichydrocarbons		1.50	, 66 10.			 E	54. 08 54. 08		-	8.8	2.76		
Contract of the Contract of th		8 8	6 6 6 6 6 6		8 FR	3 S	88 22						
Cg-Benzenes	•				i		3.5						
12	•		65			;	9 19 19						
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wis superitied to STE by the Illinois Attorney General's Office on Jenuary 4, 1982.

IT indicates sample not tasted for this constituent in indicates interference.
The indicates color interference

TABLE 3

Chemical Analyses* Ground Water Monitoring Wells

Penn Central Site

-				 		
	Well Nc.	G-	132	G-	133	
Chemical Constituent (ppm)	Date Sample Obtained	6/25/81	10/27/81	6/29/81	10/27/81	Limit**
Aliphatihydrocarbons C3-Benzene Methylphenal		1.60	0.42 8.70	0.61	0.80	
4-Methyi - 2- Pentanone Napthalene PCB's		11.00 1.70	11.00 0.84 0.0024		0.0046	
Phenol Toluene Trimethylcyclohexanol		20.00	8.90 19.00 0.52	0.57 0.45	0.77	
Trimethylcyclohexanone Trimethyl-3-cyclohexene-1-me	thanol	2.50 0.96	1.30	1.30	2.60	
Xylenes		14.00	13.00	0.52	0.72	,
Alkalinity Ammonia		750 41.0	, ,,,,,	604 20.0	1,740 98.0	NE 1.5
Arsenic Barium		0.008 INT	0.07 INT	0.003 INT	0.05 INT	0.05 1.0
BOD-5 Boron		>2,297 2.3	>2,167 5.7	NT 1.0	122 2.8	30.0 1.0
Cadmium Calcium		0.00 467	0.00 1,183	0.00 2 9 0	0.01 506	0.01
COD Chloride		4,550 320	1,200	430 220	1,000 520	NE 250
Chromium (Cr Tot.) Chromium (Cr + 6)		9.02 CI	0.47 INT	0.00	0.24	0.05 G.05
Copper Cyanide		O.OC NT	G.12 ;	0.00 NT	0.46 NT	0.02 0.025
Fluoride Hardness		2.1 2,500	2.3 6,600	1.0 1,200	2.6 1,200	1.4 NE
Iron Lead		68.5 0.00	297.9 0.57	1.0 0.00	81.8	1.0 0.05
Magnesium Manganese		249 . 3.66	872 6.34	96.7 1.05	252 2.61	NE G.15
Mercury Nickel		1.0	-0.00013 2.3	-0.00007 0.2	0.9	0.00G5 1.0
Nitrate-Nitrite pH (units)	į	7.9	0.0 6.5	0.2 7.2	0.0 7.3	6.5-9.0 ·
Phenolics Phosphorus		6.700 G.33	13.6 4.4	0.900 0.17	1.28 0.89	0.05
Potassium R.O.E. (180°C)	1	63.3 5,270	160 10,600	26.6 2,160	246 3,200	NE : 500
Selenium Silver		0.013 0.00	0.04 0.00	-0.002 0.00	40.01 9.00	0.01 0.005
Sodium Specific Conductance (umhos/o	m)	145 3,570	435 9,708	134 2,237	446 4,633	NE NE
Sulfate Zinc	-	325 1.2	1,080 2.0	450 0.8	290 1.1	50 1.0

^{*} Analyses performed by the Illinois Environmental Protection Agency.

^{**} As submitted to STS by the Illinois Attorney General's Office January 4, 1982.

NT indicates sample not tested for this constituent

INT indicates interference

CI indicates color interference

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TABLE 4

Chemical Analyses*
Soil Samples from Borings

	Sample No.	CS101	CS112	CS 11 1	ÇŞ110	CS131	CS133	CS132	CS102	CS103	CS104	CS108	CS117
	Boring No.	6-101	G-102	G-102	G-102	G-103	G-103	G-103	G-104	G-104	G-105	G-105	G-132
Chemical Constituent (ppm)	Depth (ft)	7.5-9	2.5-4	4-6	6-7	0-1,2	5-7	10-11	5-7		0-1.5	2.5-4.5	12.5-14.5
Aliphatic Hydrocarbons C3-Benzene		150	100	70	120	700	35	56	170 · 390	790 560		2,100 2,600	47
C ₄ -Benzene C ₅ -Benzene			57	12	19				95	560 55		1,900 450	
Näpthalene Toluene		90							78	180		710	
Xylenes		360	320	18	39		230	76	440 2,200	1,400 3,300	20	3,100 6,800	
Authorita	:	2.5	3.2	1.8	1.6				1.2				
Arsenic		40.001	< 0.001	<0.001	0.002				0.008				
Barium		0.1	0.0	0.0	0.0				0.0				
Boron Cadıntum		0.4	0.6	0.3	0.4				0.4			•	
Chlorides		0.00 28	0.00 5	0.00	0.00				0.00				
Chronium (Cr tot.)		0.00	0,00	8 0.00	8 0.00				15 0.00				
Copper		0.00	0.00	0.00	0.00				0.03				
Ivan		0.2	0.0	0.1	0.2				0.0				
Lead		< 0.03	∠0.03	< 0.03	< 0.03				∠0.03				
Manganese		0.15	0.04	0.09	0.06				<0.01				
Mercury Nickel		< 0.05ug	/1<0.05ug		/1 40.05ug/1				<0.05ug/	1			
pli (units)		0.0	0.0	0.0	0.0				0.0				
Phenols		7.6 6,200	7.9 0.043	7.6 0.068	7.9 0.063				8.4				
Phosphorus		0.02	0.043	0.000	0.003				0.770 0.03				
Selenium		< 0.001	∠0.001	< 0.001	∠0.001				0.003				
Sul fate		33.0	3	4	5				135			•	
21nc		0.1	0.1	0 .0	0.0				0.0				

^{*}Analyses performed by the Illinois Environmental Protection Agency.

		Sar	npie Numbers	**	
Chemical Constituent (ppm)	CS 109	CS 113	CS 114	CS 115	CS 116
Alkalinity	850	1		ļ	
Ammonia	1.7		1 1		-
Arsenic	0.007		1 1		
Barium	0.2 417	1			
BOD-5 Boron	2.0	1	}		
Cadmi um	0.00				ı
Calcium	151	1	l		
COD	860	1	Į į		
Chloride	120	1	1		
Chromium (CR total)	0.04		[
Chromium (CR + 6)	0.00	1	1 .		
Copper	0.04			1	
Cyanide	0.00	1			
Fluoride	1.7	İ	1		
Hardness	1000	1	1		
Iron	11.3	1	1		
Lead	0.12	1	}		
Magnesium Manganoso	1.06	ì]		
Manganese Mercury	0.0000	ł	}		
Nickel	0.2	1			
Nitrate-Nitrite	0.0	Ì	1		
oH (units)	8.1	į	1		
Phenolics	1.000	į	i		İ
Phosphorus	G.58	1		·	
Potassium	41.2	i	}		
R.O.E. (180°C)	1440				
Selenium	0.004	1			ı
Silver	0.00	1	1		
Sodium	57.9		,		
Specific Conductance(umhos/o		1	1		
Sulfate Zinc	12 0.4	1	}]	
Aliphatic Hydrocarbons)	4.800	130	1,300	21,000
Ca-Benzene		3.800	97	1,500	21,000
C4-Benzene	i ·	5,430	1	270	
Fatty Acid Methylesters	}	1.100	ł	980	
Fatty Acids	Į	830	1	2,000	
Isophorone	1		}	1,000	1
Methylnapthalene	l	430	i	<u> </u>	
Napthalene	1	2,200	i	140	}
Phthalic Acid	ŀ	1	74	1	
Stearic Acid	1		380	1	ļ
Tetradecanoic Acid	0.51		200	1	r 100
Toluene	1	5,300	280	1,900	5,100
Trimethylcyclohexanal	0.46	1]]	
Trimethylcyclohexanone Xyienes	0.34	4,000	610	1 500	4,200
Sulfide	57.7	4,000	910	1,500	4,200

^{*} Analyses performed by the Illinois Environmental Protection Agency
**Sample CS 109 - Oily residue obtained on ground surface. Light gray with solvent odor.

**Sample CS 113 - Tan, viscous fluid leaking from drum marked: DeSoto Chemical. Drum found near center of site.

**Sample CS 114 - Black, viscous fluid with no detectable odor.

**Sample CS 115 - Black, viscous fluid with solvent odor.

**Sample CS 116 - Black sludge with slight solvent odor.

Chemical Analyses*

Samples from Test Pit Excavations**

TABLE O

	Sample Numbers**										
Chemical Constituent (ppm)	CS 125	CS 126	CS 127	CS 128	CS 129	CS 130					
Aliphatic Hydrocarbons	2,500	124	4.20	2,700		680					
C ₃ -Benzene				220		1,400					
C _A -Benzene	}	11	·}								
l sophorone	190										
Napthalene		8.6			-)						
Phthalic Anhydride				İ	2,900	1					
Pithalates			1		1,100	23,000					
Styrene			1	800	İ	{					
Toluene		84		1,500	520	370					
Trimethylcyclohexanol	İ	15			İ						
Trimethylcyclohexanone		38									
Xylenes	180	85	0.63	1,200	88	510					

^{*} Analyses performed by the Illinois Environmental Protection Agency

^{**}Sample CS 125 - Test Pit No.2 @ 6' depth (bottom of pit). Brown liquid with solvent odor.

^{**}Sample CS 126 - Test Pit No.3 @ 4' depth (bottom of pit). Brown liquid with solvent odor.

^{**}Sample CS 127 - Test Pit No.4 @ 4' depth - Clear liquid with black solids. Solvent odor.

^{**}Sample CS 128 - TestiPit No.2. Sample from smashed 55-gallon drum found in test pit. Red colored semi-solid material with slight solvent odor.

^{**}Sample CS 129 - Test Pit No.2. Sample from smashed 55-gallon drum found in test pit. Caramel colored semi-solid material with slight solvent odor.

^{**}Sample CS 130 - Test Pit No.9. Sample from smashed 55-gallon drum found in test pit. White colored solid to semi-solid material with no odor.

TABLE 7

Illinois Pollution Control Board Chapter 3: Water Pollution

	Surf	ace	Ground	water	Efflu	u <u>ent</u>
	Lower	Upper	Lower	Upper	Lower	Upper
	Limit	Limit	Limit	Limit	Limit	Limit
Alkalinity Ammonia (NH ₄) Arsenic (As) Barium (Ba) BOD-5 Boron (B) Cadmium (Cd) COD Chloride (Cl) Chromium (Cr+3) Chromium (Cr+6) Copper (Cu) Cyanide (Cn) Dissolved Oxygen Fecal Coliform Flouride (F) Hardness Iron, Total (Fe) Iron, Dissolved (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Mercury (Hg) Nickel (Ni) Nitrate (NO ₃) Oil pH Phenols Phsophorus (P) Potassium (K) R.O.E. Selenium (Se) Silica (Si) Silver (Ag) Sodium (Na) Specific Conductance Sulfate (SO ₄)	THE NEW THE THE TOTAL THE	Limit NE 1.5 1.0 5.0 NE 0.05 NE 0.025 NE 1.0	T NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	NE 1.5 .05 1.0 .05 .05 .02 .02 .02 .02 .00 .00 .00 .00 .00 .00	TE NANNANANANANANANANANANANANANANANANANAN	
Sulfide Total Solids Total Suspended Solids Zinc (Zn)	NE	NE	NE	NE	NE	NE
	NE	NE	NE	NE	NE	NE
	NE	NE	NE	15.0	NE	15.0
	NE	1.0	NE	1.0	NE	1.0

General Discussion of Chemical Results

The results for almost all samples analyzed indicate that there is significant organic and inorganic contamination of the shallow ground water at both the U.S. Scrap and the Penn Central Sites. Soil samples of the upper part of the thick clay strata which were collected during boring operations were also found to be severely contaminated. The most contaminated samples were the waste material surface samples and those samples obtained from the test pit excavations.

Ground Water Samples

Ground water samples obtained from the U.S. Scrap Site were generally more contaminated than those collected at the Penn Central Site. However, all samples from both locations exceeded ground water limits (shown on Table 7) for ammonia, BOD-5, boron, manganese, phosphorus, R.O.E. (residue on evaporation) and sulfate. Similarly, all samples contained xylenes, toluene and several other organic solvents in varying concentrations, which are classified by RCRA as hazardous.

Concentrations of constituents found in ground water samples obtained from different monitoring wells varied considerably. This was mainly due to differences in the types of wastes which were disposed of throughout the site. The chemical adors detected and the organic constituents measured indicate that most of the wastes were solvent mixtures,

possibly from painting, degreasing or other industrial processes. These solvents are classified by RCRA (in Part 261) as being hazardous. Some of the inorganic constituents were also high but it is noteworthy that many metal concentrations were not measured at levels which exceeded acceptable standards.

There were also variations in chemical concentrations (in the same wells) of the samples collected in June and in October, 1981. October samples from the U.S. Scrap Site generally had higher concentrations for most parameters than those collected in June. Samples from the Penn Central site were more consistent with time. The changes may have been caused by seasonal water level fluctuations (possibly also influenced by the ground water mound) which changed the nature of the fill which was in contact with the water at the time of sample collection.

Soil and Fill Samples

Soil and fill samples collected above and below the prevailing water levels contained high concentrations of organic constituents and much lower levels of the more soluble inorganic compounds. This is consistent with the cohesive nature of the near surface fill and underlying natural clay which will readily adsorb most organic and some inorganic compounds. The high concentrations of organics should be of concern since they may pose a long-term environmental hazard caused by extended leaching of these contaminants into the ground water.

Waste and Test Pit Samples

The surface waste sample analyses revealed the organic nature of most of the waste materials disposed of at the site. Extremely high concentrations of xylenes and toluene were found in most of the waste samples (hazardous under RCRA). Chlorinated hydrocarbons (PCB's) were also measured in significant amounts. Analyses of the test pit samples were consistent with these results, indicating various organic constituents in relatively high concentrations.

Results by Boring Location

Boring G-101 (U.S. Scrap Site) - Samples obtained from this location were found to be comprised of various fill materials including a tar-like substance and some material with a brown coloration. Strong organic odors were noted in the underlying natural soil. These observations were consistent with the results which indicated a variety of organic constituents present in the ground water at concentrations greater than I ppm. Most notable of these were the xylenes, toluene, phenol, and aliphatic hydrocarbons. Illinois ground water standards for inorganic chemicals were exceeded by many parameters at this location. BOD-5, chloride, fluoride, iron, manganese, phosphorus and ROE were all measured at levels which exceeded the standards by at least 100% and often, by several orders of magnitude.

The soil sample analyzed from this boring was consistent with the ground water results for most of the organic constituents. Inorganic chemical concentrations were generally lower in the soil sample.

Boring G-102 (U.S. Scrap Site) - Paint sludge was observed in the upper part of this boring which appears to have influenced the results of the chemical analysis. Again, high concentrations of organics were measured, with xylenes and trimethylcyclohexanone having levels of 27 and 12 ppm, respectively. BOD levels were reduced, possibly due to natural toxicity in the sample, since COD levels were still significant.

Three soil boring samples were collected and analyzed at this location. The most contaminated was the uppermost soil sample, obtained from a depth of from 2.5 to 4 ft and identified as paint sludge. Concentrations of C_4 -benzene and xylenes were lower in the underlying soil, however the aliphatic hydrocarbons were high at all depths tested. These compounds were possibly present in wastes deposited prior to the paint sludge as well as being components of the paint sludge itself.

Boring G-103 (U.S. Scrap Site) - Fill in this boring consisted of wood fragments underlain by a granular saturated material with a strong odor. Ground water samples obtained from this well contained the highest concentration of xylenes (120 ppm) found in any ground water sample. Other organic concentrations which exceeded 20 ppm included

aplihatic hydrocarbons, C_4 -benzene, ethyl benzene and toluene. The COD values measured in ground water samples obtained from this well varied from 34,000 to 149,500 ppm, confirming the presence of many nonbiodegradable constituents. The alkalinity of these samples was also quite high, as were phenolics, sulfate, magnesium and many other constituents.

Only limited analyses of soil samples were performed. These indicated high levels of aliphatic hydrocarbons and xylenes in the upper soil layers.

Boring G-104 (U.S. Scrap Site)- Strong paint-like odors and a high pH level (8-10) were noted in the fill at this location. Ground water contamination levels were similar to those found in wells at G-101 and G-102. Again xylenes, toluene and trimethylcyclohexanone were measured at concentrations exceeding 20 ppm. Some additional methylated organic constituents were also measured at high levels in this location.

For the inorganic parameters in the ground water, COD values were in the 20,000 ppm range. Some metals were also analyzed at levels exceeding the standards shown on Table 7. These included zinc, selenium, nickel, arsenic, chromium, and copper. It is interesting to note that samples of tar-like fill material collected at this location contained extremely high organic concentrations (much greater than at G-101 and G-102). It appears that there is more contamination present in this material; however the constituents do not seem to be easily solubilized into the ground water.

Boring G-105 (U.S. Scrap Site) - The well screen at this location was placed in the bedrock aquifer at a depth of approximately 70 ft, so results of these analyses are especially critical in establishing the extent of underlying ground water contamination at this site. These results indicate that the shallow bedrock aquifer in the Silurian Dolomite has been contaminated by organic constituents. The ground water from the deep well contained xylenes in concentrations from 11-47 ppm, toluene at levels up to 26 ppm, and aliphatic hydrocarbon in amounts up to 22 ppm.

The presence of these organic constituents in G-105 probably cannot be attributed to the Revert which was used in the drilling process. Revert is a complex polysaccharide which eventually breaks down into simple sugars. The organic contaminants detected in the analysis of G-105 are generally not components of Revert.

In addition, we consider it unlikely that the bedrock aquifer has been contaminated by pollutants that leached from the shallow aquifer and through the thick layer of clay separating the two aquifers. As mentioned previously, laboratory permeability tests performed on samples of this clay indicate that it has a permeability of less than 10^{-7} cm/sec. With a permeability this low, seepage from the upper aquifer to the lower bedrock aquifer will be extremely slow. It is possible that the contaminants are migrating to the deep aquifer via natural fissures in the clay (highly unlikely due to the substantial thickness of the clay) or, more likely, by moving laterally in the shallow aquifer to existing water supply wells in the area and then travelling vertically down these wellholes to the deep aquifer. This would have to be substantiated however, before a final conclusion could be made.

The soil samples analyzed from this location do not relate to the ground water quality in the bedrock aquifer since they were obtained from an upper layer of red and black fill. The sample obtained from 2.5 to 4.5 feet was found to be heavily contaminated with organics. It contained almost 1% of a combination of xylenes and toluene.

Boring G-106 (Background) - This well was located approximately 1500 ft west of the U.S. Scrap Site as shown on Figure 1. The ground water contained 9.6 ppm of phenol and a small concentration of PCB's. Some constituents which exceeded standards included chromium, copper, iron, manganese and zinc.

No soil samples were analyzed.

Boring G-132 (Penn Central Site) - Various fill types were noted at two depths including wood material, a stiff clay fill and oily black cinders. The ground water contained moderate concentrations of organic constituents, most notably 4-methyl-2-pentanone, toluene, and xylenes. Phenol and methylphenol were also found at levels of approximately 9 ppm each. Ammonia concentrations were high at this location as were alkalinity, COD, chloride, sulfate and zinc.

A soil sample collected at this location (from 12.5 to 14.5 ft) contained 47 ppm of aliphatic hydrocarbons. Other organic and/or inorganic parameters were not measured. Of the two well locations on the Penn Central Site, G=132 had significantly more soil and ground water contamination than did G=133.

Boring G-133 (Penn Central Site) - This boring also encountered wood fill over a gravel material and a sandy clay fill with tar-like fluid. In general, the concentrations measured in ground water samples from this location were much lower than in ground water samples obtained from other locations. Only trimethylcyclohexanone exceeded I ppm. Some inorganic parameters exceeded illinois standards but not to the extent found at any other location.

No soil samples were analyzed.

Summary of Results

The chemical data indicates that the uppermost ground water (within the fill) at both sites is severely contaminated by organic and inorganic compounds. The extent of this contamination varies, probably due to differences in waste materials placed throughout the sites. In general, the U.S. Scrap Site appears to be more contaminated than the Penn Central Site.

The ground water analyzed from the bedrock well at G-105 (at a depth of about 70 ft) was also found to contain substantial concentrations of organic and inorganic chemical constituents. While this contamination may be due to past waste disposal activities at the U.S. Scrap Site, more research and exploratory work would have to be performed to confirm this. It is unclear, based upon available information, how these chemicals entered the bedrock aquifer. As mentioned previously, the clay which separates the aquifers is thick (on the order of 55 to 60 ft) and of a low permeability (10^{-7} cm/sec).

The major type of ground water contamination throughout the two sites appears to be organic in nature, most notably, solvents such as xylenes and toluene. However, numerous other organic parameters were detected in significant quantities, indicating that overall organic contamination exists. Many inorganic constituents also exceeded illinois standards for ground water.

Soil samples were also severely contaminated with organic compounds. Inorganic concentrations were significantly lower. It appears that the organic chemicals are being adsorbed to the soil and could, therefore, cause long-term leaching problems.

Finally, selected waste and test pit samples confirm the organic nature of the waste materials which were disposed of at the site. These samples were found to contain high concentrations of numerous organic chemicals and would generally be considered as hazardous waste materials, if the standards set forth in RCRA, Part 261 were applied.

REMEDIAL ACTION ALTERNATIVES (Ref. 4 and 5)

Based upon the information presented in this report, it is concluded that both the U.S. Scrap and the Penn Central Sites are severely contaminated with various inorganic and organic chemical constituents. In addition, while the available data is insufficient to accurately conclude the direction of ground water flow after it exits the sites, it is also assumed that ground water is entering and leaving the site and, in doing so, is being contaminated and carrying this contamination to off-site areas.

In order to stop the flow of the contaminated uppermost ground water to off-site areas, some form of effective remedial action must be implemented at both sites. By implementing proper remedial action techniques, adverse environmental and human health impacts will be minimized (or, hopefully, eliminated). The two basic concepts which should be considered in designing and selecting the final remedial action plan are 1) to remove all of the contaminated materials from the sites or 2) to contain the contaminated ground water within the site materials rather than allow it to migrate to off-site areas.

Removal of Contaminated Material

In evaluating the various remedial action alternatives, it may be considered advantageous to totally remove the contaminated materials from one or both of the subject sites. In deciding upon this option, the following factors should be considered from environmental, economic, and construction standpoints:

- A. All waste materials (fill) must be removed from the site(s). In addition, several feet of the underlying clay must also be removed so that future movement of water through the soil will not cause leaching of contaminants and potential additional ground water contamination of the bedrock aquifer.
- B. Removal and transport of the contaminated materials must be done in such a manner so as to prevent unnecessary exposure to the general public.
- C. The materials must be disposed of in an environmentally safe manner, probably at a licensed landfill.
- D. After the contaminated materials are removed, the site will require reclamation. The reclamation measures which will probably be necessary include:
 - l. Backfilling with clean soil or fill material to the surrounding ground level.
 - 2. Providing a mechanism for surface runoff and erosion control.
 - 3. Revegetating the site(s).
 - 4. Consideration of post reclamation site use.

Waste Materials Remain in Place

If it is elected to leave the contaminated materials in place, a decision must then be made whether to 1) isolate the contaminated materials by controlling surface water infiltration and off-site ground water migration or 2) treat or detoxify the ground water, fill materials, and underlying soils.

Contaminant Isolation

If it is elected to isolate contaminated materials from the outside environment, mechanisms must be employed which will control surface water infiltration and which will preclude off-site ground water migration.

One of the primary causes of leachate generation is surface water infiltration which passes through contaminated materials and migrates downward in a contaminated state to the ground water. Therefore, reducing surface water infiltration into the contaminated materials is a prerequisite in a remedial action program designed to isolate the contaminated site materials (for that matter, this is also a prerequisite if it decided to treat the contaminated materials).

Many materials can be used to form a surface cover layer, including clay, asphalt, concrete, or other synthetic materials. Implementing one of these cover materials would also reduce the potential for contamination of surface water which runs off the U.S. Scrap and/or Penn Central Sites. It should be noted that if one of these covers is utilized, it will probably require periodic maintenance as the buried waste materials consolidate and/or degrade which would then result in differential settlements throughout the site. This could not only cause cracking or rupturing of the cover layer, but will also change the surface drainage characteristics of the site.

In addition to minimizing surface water infiltration, the cover should be designed to maximize surface runoff. By doing so, surface water will exit the site as rapidly as possible and will further help to minimize infiltration. The cover should be adequately sloped to drainage ditches which should then be designed to transport the water to nearby water courses or sewers. If a cover material is relatively impermeable and is adequate sloped, the runoff water may not require further treatment. Periodic tests should be made of this runoff water however to be sure that it contains no contaminants in excessively high concentrations.

In order to minimize the migration of contaminated ground water to off-site areas, we recommend that a seepage cutoff be installed around the entire perimeter of each site in conjunction with the surface cover. The seepage cutoff can be constructed of concrete, grout (either chemical or cement) or bentonite clay. In any case, it should be extended through the fill materials and into the underlying natural clay.

By using a combination surface cover and seepage cutoff, a completely contained unit would be formed which would be filled with contaminated waste. To monitor the effect of this unit, periodic tests of the ground water and surface water outside of the subject sites should be performed. To do this, several ground water monitoring wells will have to be installed.

Another method of halting off-site ground water migration is to excavate drainage ditches around the perimeter of the site, install drain tiles along the bottoms of the ditches (surrounded with granular material), and backfill the trenches above the drain tiles with relatively impermeable clay soils. The drain tiles would then be connected to a treatment system or a temporary holding pond. A system installed in this manner will lower the ground water table at the drainage ditch, thus reversing the ground water gradient immediately adjacent to the ditch and precluding movement of site ground water to off-site areas. These systems do require maintanence, however, as well as requiring treatment of the collected water.

In conjunction with the drainage ditch concept, the ground water in the uppermost aquifer (fill materials) could be pumped by using wellpoints and then treated before it is recharged to the ground water table. Disadvantages of this concept, however, are that it is expensive from the standpoint of pumping costs and treatment costs and also that it is technically very difficult to completely intercept the ground water before it migrates to off-site areas. The wellpoints would have to be very closely spaced in order to adequately remove all the water tending to flow between them.

In-Situ Treatment and/or Detoxification

In-situ treatment and detoxification of contaminated soils are relatively new concepts and, as such, are untried in comparison with the more common physical techniques of material removal or containment. When detoxification is performed, it is commonly done by excavating the contaminated materials, treating them above grade, and then replacing them to their original location.

Some of the more commonly used in-situ treatment techniques include water flushing, chemical reaction, physical mixing, fixation, and microbiologic activity.

Since the waste materials which were disposed of at the U.S. Scrap and Penn Central Sites span a wide variety of physical and chemical characteristics, it may not be possible to detoxify them with a single treatment method. The remedial action selection process must consider all of the treatment methods which would be required at each particular site.

GENERAL QUALIFICATIONS

This report has been prepared in order to aid in the evaluation of the subject site and to assist the Illinois Attorney General in evaluating the subsurface contamination at the US Scrap and Penn Central Sites. The scope is limited to the specific project and locations described herein, and our description of the project represents our understanding of the significant environmental aspects and/or implications pertaining to the project as communicated to us by the Illinois Attorney General's Office. In the event that any deviations from the understood scope of work occur, STS should be informed so that changes can be reviewed and that conclusions presented in this report modified, if appropriate. Should changes in the scope of intent of the project occur without STS having the opportunity to review the changes and comment on the geotechnical or environmental consequences of the changes, STS assumes no liability for any resulting damages.

It is recommended that all construction operations resulting from recommendations presented in this report be observed by an engineer or geologist, experienced in evaluating soil-ground water systems. If you wish, STS would welcome the opportunity to provide these field services for you at the appropriate time. In addition, we would welcome the opportunity to review plans, specifications, reports and/or permits when they have been prepared so that we may have the opportunity of commenting on their effect(s) on the overall project.

The analysis and recommendations submitted in this report are based upon data obtained from soil borings performed at locations which are indicated on the location diagram and from other information as outlined in the report. This report does not reflect any variations which may occur between the boring or test pit locations; rather, specific information was obtained at the specific boring and test pit locations at specific times. It is a well-known fact that variations in soil, rock and ground water conditions can occur between such locations.

In addition, ground water monitoring wells were installed on this project. It can be expected that ground water levels may vary seasonally and annually due to precipitation, evaporation, surface runoff, and percolation. Variations of several feet are not uncommon. Therefore, interpretations made concerning the ground water characteristics using the available monitoring well readings are estimates based on the experience of the engineer, geologist, or chemist.

Chemical concentrations may also vary significantly between sampling times due to the environmental factors mentioned above and the introduction of chemicals into the soil and ground water from natural or man-made sources. Therefore, test results obtained from samples taken at discrete points in time do not provide continuous monitoring of the chemical concentrations. However, the chemical testing program performed by the Illinios Environmental Protection Agency was performed in order to systematically test the chemical content of site materials so that a reasonable engineering evaluation of the chemical concentrations and their variations could be made.

Should construction procedures be implemented after submittal of this report, unanticipated subsurface conditions may occur. For this reason, we recommend that a "Changed Conditions" clause be provided in the contract both with the general contractor and in all contracts with the sub-contractors involved in underground work. It is felt that the inclusion of this clause will permit contractors to submit lower prices because they will not need to provide as many contingencies as they normally would if equitable adjustment of changed conditions will minimize conflicts and litigation with the attendant delays and costs. Furthermore, by the immediate recognition and adjustment in contract price at the time any changed conditions are encountered, the immense problems of trying to recreate facts when litigation develops later is eliminated.

REFERENCES

- 1. "Summary of the Geology of the Chicago Area" by H.B. Willman, Illinois State Geological Survey Circular 460; 1971.
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- 3. United States Environmental Protection Agency, "Resource Conservation and Recovery Act: Hazardous Waste Management System", Federal Register, May 19, 1980.
- 4. Soil Testing Services, Inc., "Solutions to Waste Disposal Problems", Seminar Presented April 11, 1980 in Chicago, Illinois.
- 5. United States Environmental Protection Agency, "Closure of Hazardous Waste Surface Impoundments", SW-873, September, 1980.

APPENDIX

A. Soil Boring Logs

Standard Clause for Unanticipated
Subsurface Conditions
General Notes
Procedures Regarding Field Logs,
Laboratory Data Sheets and Samples
ASTM Specifications
D-1586-67
D-1587-67
Unified Soil Classification System

- B. Monitoring Well Diagrams
- C. Test Pit Logs
- D. Summary of Geophysical Data
- E. Summary of Permeability Test Results

APPENDIX B

Monitoring Well Diagrams

UNIFIED SOIL CLASSIFICATION SYSTEM

Me	lor divisio	ons .	Group symbols	Typical names	Laboratory classification enteria		
	lion	gravels r no fines)	GW	Well-graded gravels, gravel-sand mixtures, little or no fines	$C_u = \frac{D_{60}}{D_{10}}$ greater than 4: $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$	between 1 and 3	
	Gravels f of coarse fract No. 4 sieve size	Clean gravels (Little or no fines)	GP	Poorly graded gravels, gravel- sand mixtures, little or no fines	Not meeting all gradation requirement	quirements for GW	
XO sieve sizel	Gravels More than half of coarse fraction larger than No. 4 sieve size	ith fines le amount nes)	GM d	Silty gravels, gravel-sand-silt mixtures	Atterberg limits below "A" Owner Compare Compare Compare Compare	'A" line with P.I. 4 and 7 are bor-	
Coarse grained soils of is farger than No. 20	(More lar	Gravels with fines (Appreciable amount of fines)	GC	Clayey gravels, gravel-sand-clay mixtures	Above between derline of dual line with P.J. greater than 7	cases requiring use symbols	
Coerse-grained soils (More then half of material is lerper than No. 200 sieve size)	nlon 20)	cands no fines)	SW	Well-graded sands, gravelly sands, little or no fines	Cu Does greater than 4; Cc Does Does of Does o	between 1 and 3	
half of mat	ids of coarse fraction 40. 4 sieve si	Clean (Little or	SP	Poorly graded sands, gravelly sands, little or no fines	Not meeting all gradation requirement	r for SW	
(More than	Sands More than half of coarse frection is smaller than (40, 4 sieve size)	Sands with fines (Appreciable amount of fines)	SM d	Silty sands, sand-silt mixtures	Atterberg limits below "A" Limits per cent and a confidence of the confidence of th	plotting in hatched th P.I. between 4 are barderline cases	
	(Mor	Sands with (Appreciable of fines)	sc	Clayey sands, sand-clay mix- tures	Atterberg limits above "A" line with P.J. greater than 7	g use of dual sym-	
	·	less than 50)		Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity	60		
200 sieve)	its and clays	limit lers th	CL	Inorganic clays of low to me- dium plasticity, gravelly clays, sandy clays, silty clays, lean clays	For classification of fine-grained soils and fine fraction of coarse-grained soils. Atterberg Limits plotting in hatched area are borderline classification.		
Fine grainod soils material is smaller than No. 200 sievel		(Liquid Jimit	OL	Organic silts and organic silty clays of low plasticity	fications requiring use of dual symbols. Equation of A-line: P1=0.73 (LL - 20)		
ne grainod soils acial is <i>smaller</i>		than 50)	мн	Inorganic silts, micaceous or diatomeceous fine sandy or silty soils, elestic silts	20 Pr=0.73 (LL - 20) ≥ 30 OH ared N	1H	
	Sins and clave	(Liquid livrit grouter than 50)	СН	Inorganic clays of high plas- ticity, fat clays	16 7		
(More than half of		(1.fquid	ОН	Organic clays of medium to high plasticity, organic silts	0 10 20 30 40 50 60 70 Liquid Limit	80 90 100	
	Highly	organic soils	Pt	Peat and other highly organic soils	Plasticity Chart		

AMERICAN SOCIETY FOR TESTING AND MATERIALS

1916 Race St., Philadelphia, Pa. 19103

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Standard Method for

THIN-WALLED TUBE SAMPLING OF SOILS'



ASTM Designation: D 1587 - 57

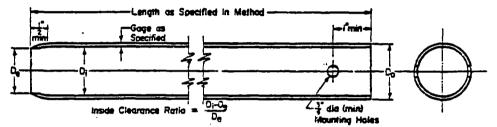
This Standard of the American Society for Testing and Materials is issued under the fixed designation D 1587; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval.

I. Scope

- 1.1 This method describes a procedure for using a thin-walled metal tube to recover relatively undisturbed soil samples suitable for laboratory tests. It is intended as a guide to more complete specifications to meet the needs of a particular job.
- 1.2 There are, in general, two types of samplers that use thin-walled tubes for sampling, namely, open-tube samplers, and piston samplers.² In general, piston samplers are better and can be used in almost all soils. Since the thin-walled tube requirements are the same for both types of samplers, the method described applies equally to both.

2. Apparatus

- 2.1 Drilling Equipment—Any drilling equipment may be used that provides a reasonably clean hole before insertion of the thin-walled tube; that does not disturb the soil to be sampled, and that can effect continuous and rapid penetration of the tube into the sampled soil.
- 2.2 Thin-Walled Tubes—Thin-walled tubes 2 to 5 in. (50.8 to 127 mm) in cut-side diameter and made of any materials



Note 1—Minimum of two mounting holes on opposite sides for 2 to $3\frac{1}{2}$ in. sampler. Note 2—Minimum of four mounting holes spaced at 90 deg for samplers 4 in. and larger. Note 3—Tube held with hardened screws.

TABLE OF METRIC EQUIVALENTS.

in.	nim.	G
**************************************	6.77 12.7 25.4	1.27 2.54 5.08
3)- <u>6</u> 4		8.89 10.16

Fig. 1-Thin-Wailed Tube for Sampling.

having adequate strength and resistance to corrosion will be satisfactory (Fig. 1). Adequate resistance to corrosion can be provided by a suitable coating. Sizes other than these may be used, if specified.

2.2.1 Tubes shall be of such a length that between five and ten times the diameter is available for penetration into sands and between ten and fifteen diameters is available for penetration into clays. Tubes shall be round and smooth, without bumps, dents, or scratches. They shall be clean, and free from rust and dirt. Seamless or welded tubes are permissible, but welds must not project at the seam. The cutting edge thall be machined as shown in Fig. 1 and shall be free from

TABLE 1—SUITABLE THIN-WALLED STEEL SAMPLE TUBES.

Outside diameter:			
<u> </u>	2	3	5
'''''''''''''''''''''''''''''''''''''	50.3	78.2	127
Weil thickness:			
Bwg	18	16	11
iz		0.065	0.120
D1D1	1.24	1.65	3.05
Tube length:			
in		36	54
x	3 e.0	0.91	1.45
Clenratica tatio,			
per cent	1	ì	1

The three diameters recommended in Taids I are indirected for purposes of standardination, and are not intended to indicate that tampling tures of intermediate or larger diameters are not acceptable. Lengths of tubes shown are illustrative. Proper lengths to be determined as suited to field conditions.

Current edition issued Oct. 20, 1967. Originally issued 1958. Replaces D 1587 - 63 T.

Hyoreiev. M. J., Surface Exploration and Sampling of Soils for Civil Engineering Purposes. The Engineering Foundation, 345 East 47th St., New York, N. Y. 19917.

Under the standardization procedure of the Society, this method is under the jurisdiction of the ASTM Committee D-18 on Soil and Rock to: Engineering Purposes. A list of members may be found in the ASTM Year Book.

AMERICAN SOCIETY FOR TESTING AND MATERIALS

1916 Race St., Philadelphia, Pa. 19103

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Standard Method for

PENETRATION TEST AND SPLIT-BARREL SAMPLING OF SOILS'



ASTM Designation: D 1586 - 67

This Standard of the American Society for Testing and Materials is issued under the fixed designation D 1586; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval.

1. Scope

1.1 This method describes a procedure for using a split-barrel sampler to obtain representative samples of soil for identification purposes and other laboratory tests, and to obtain a measure of the resistance of the soil to penetration of the sampler.

2. Apparatus

2.1 Drilling Equipment—Any drilling equipment shall be acceptable that provides a reasonably clean hole before insertion of the sampler to ensure that the penetration test is performed on undisturbed soil, and that will permit the driving of the sampler to obtain the sample and penetration record in accordance with the procedure described in 3. Procedure. To avoid "whips" under the blows of the hammer, it is recommended that the drill rod have a stiffness equal to or greater than the A-rod. An "A" rod is a hollow drill rod or "steel" having an outside diameter of 11 in. or 41.2 mm and an inside diameter of 11 in. or 28.5 mm, through which the rotary motion of drilling is transferred from the drilling motor to the cutting bit. A stiffer drill rod is suggested for holes deeper than 50 ft (15 m). The hole shall be limited in diameter to between 2½ and 6 in. (57.2 and 152 mm).²

2.2 Split-Barrel Sampler—The sampler shall be constructed with the dimensions indicated in Fig. 1. The drive shoe shall be of hardened steel and shall be replaced or repaired when it becomes dented or distorted. The coupling head shall have four ½-in. (12.7-mm) (minimum diameter) vent ports and shall contain a ball check valve. If sizes other than the 2-in. (50.8-mm) sampler are permitted, the size shall be conspicuously noted on all penetration records.

2.3 Drive Weight Assembly—The assembly shall consist of a 140-lb (63.5-kg) weight, a driving head, and a guide permitting a free fall of 30 in. (0.76 m). Special precautions shall be taken to ensure that the energy of the falling weight is not reduced by friction between the drive weight and the guides.

2.4 Accessory Equipment — Labels, data sheets, sample jars, paraffin, and other necessary supplies should accompany the sampling equipment.

3. Procedure

3.! Clear out the hole to sampling elevation using equipment that will ensure that the material to be sampled is not disturbed by the operation. In saturated sands and silts withdraw the drill bit slowly to prevent loosening of the soil around the hole. Maintain the water

level in the hole at or above ground water level.

- 3.2 In no case shall a bottom-discharge bit be permitted. (Side-discharge bits are permissible.) The process of jetting through an open-tube sampler and then sampling when the desired depth is reached shall not be permitted. Where casing is used, it may not be driven below sampling elevation. Record any loss of circulation or excess pressure in drilling fluid during advancing of holes.
- 3.3 With the sampler resting on the bottom of the hole, drive the sampler with blows from the 140-lb (63.5-kg) hammer falling 30 in. (0.76 m) until either 18 in. (0.45 m) have been penetrated or 100 blows have been applied.
- 3.4 Repeat this operation at intervals not longer than 5 ft (1.5 m) in homogeneous strata and at every change of strata.
- 3.5 Record the number of blows required to effect each 6 in. (0.15 m) of penetration or fractions thereof. The first 6 in. (0.15 m) is considered to be a seating drive. The number of blows required for the second and third 6 in. (0.15 m) of penetration added is termed the penetration resistance, V. If the sampler is driven less than 18 in. (0.45 m), the penetration resistance is that for the last 1 ft (0.30 m) of penetration (if tess than 1 ft (0.30 m) is penetrated, the logs shall state the number of blows and the fraction of 1 ft (0.30 m) penetrated).
- 3.5 Ering the sampler to the surface and open. Describe carefully typical

Current edition accepted Oct. 20, 1987. Originally assed 1958. Replaces D 1588 - 64 T.

Under the standardization procedure of the Society, this nethod is under the jurisdiction of the ASTM Committee D-18 on Soil and Rock for Engineering Purposes. A list of members may be found in the ASTM Year Book.

² Hyorslev, M. J., Surface Exploration and Sampling of Soils for Civil Engineering Purposes, The Engineering Foundation, 345 East 47th St., New York, M. Y. 10017.

PROCEDURES REGARDING FIELD LOGS,

LABORATORY DATA SHEETS AND SAMPLES

In the process of obtaining and testing samples and preparing this report, procedures are followed that represent reasonable and accepted practice in the field of soil and foundation engineering.

Specifically, field logs are prepared during performance of the drilling and sampling operations which are intended to portray essentially field occurrences, sampling locations and other information.

Samples obtained in the field are frequently subjected to additional testing and reclassification in the laboratory by more experienced soil engineers, and differences between the field logs and the final logs exist.

The engineer preparing the report reviews the field and laboratory logs, classifications and test data, and in his judgement in interpreting this data, may make further changes.

Samples taken in the field, some of which are later subjected to laboratory tests, are retained in our laboratory for sixty days and are then destroyed unless special disposition is requested by our client. Samples retained over a long period of time, even in sealed jars, are subject to moisture loss which changes the apparent strength of cohesive soil, generally increasing the strength from what was originally encountered in the field. Since they are then no longer representative of the moisture conditions initially encountered, an inspection of these samples should recognize this factor.

It is common practice in the soil and foundation engineering profession that field logs and laboratory data sheets not be included in engineering reports, because they do not represent the engineer's final opinions as to appropriate descriptions for conditions encountered in the exploration and testing work. On the other hand, we are aware that perhaps certain contractors and subcontractors submitting bids or proposals on work might have an interest in studying these documents before submitting a bid or proposal. For this reason, the field logs will be retained in our office for inspection by all contractors submitting a bid or proposal. We would welcome the opportunity to explain any changes that have and typically are made in the preparation of our final reports, to the contractor or subcontractors, before the firm submits its bid or proposal, and to describe how the information was obtained to the extent the contractor or subcontractor wishes. Results of laboratory tests are generally shown on the boring logs or are described in the text of the report, as appropriate.

The descriptive terms and symbols used on the logs are described on the attached sheet, entitled, General Notes.

GENERAL NOTES

DRILLING & SAMPLING SYMBOLS:

SS	:	Spiit Spoon - 1 3/8" I.D., 2" O.D.	OS	:	Osterberg Sampler - 3" Sheiby Tube
		Unless otherwise noted	HS		Hollow Stem Auger
ST	:	Shelby Tube - 2: O.D., .	¥S	:	Wash Sample
		Unless otherwise noted	हा	:	Fish Tail
PA	:	Power Auger	RB	:	Rock Bit
DB	:	Diamond Bit - NX, BX, AX	BS	:	Bulk Sample
AS	:	Auger Sample	PM	:	Pressuremeter Test, In-Situ
JS	:	Jar Sample	GS	:	Giddings Sampler
VS.	•	Vane Shear			•

Standard "N" Penetration: Blows per foot of a 140 pound hammer falling 30 inches on a 2 inch C.D. split spoon sampler, except where otherwise noted.

WATER LEVEL MEASUREMENT SYMBOLS:

WL		Water Level	WCI:	Wet Cave In
₩S	:	While Sampling	DCI :	Dry Cave In
ΦĐ	:	While Drilling	BCR:	Before Casing Removal
AB	:	After Boring	ACR:	After Casing Removal

Water levels indicated on the boring logs are the levels measured in the boring at the times indicated. In pervious soils, the indicated elevations are considered reliable groundwater levels. In impervious soils, the accurate determination of ground water elevations may not be possible, even after several days of observations; additional evidence of ground water elevations must be sought.

GRADATION DESCRIPTION & TERMINOLOGY:

Coarse Grained or Granular Soils have more than 50% of their dry weight retained on a #200 sieve; they are described ass boulders, cobbles, gravel or sand. Fine Grained soils have less than 50% of their dry weight retained on a #200 sieve; they are described ass clays or clayer silts if they are cohesive and silts if they are non-cohesive. In addition to gradation, granular soils are defined on the basis of their relative in-place density and fine grained soils on the basis of their strength or consistency and their plasticity.

Major Component Of Sample	Size Range	Descriptive Term Of Components Also Present in Sample	Percent Of Dry Weight
Boulders	Over 8 in. (200 mm)	Trace	1 - 9
Cobbles	8 inches to 3 inches (200 mm to 75 mm)	Little	10 - 19
Gravel	3 inches to #4 sieve (75 mm to 4.76 mm)	Some	20 - 34
Sand	#4 to #200 sieve (4.76 mm to 0.074 mm)	And .	35 - <i>5</i> 0
Silt	Passing #200 sieve (0.074 mm to 0.005 mm)		
Clay	Smaller than 0.005 mm		

CONSISTENCY OF COHESIVE SOILS: RELATIVE DENSITY OF GRANULAR SOILS:

Unconfined Compressive Strength, Qu, tsf	Consistency	N - Blows per ft.	Relative Density
< 0.25	Very Soft	5 - 3 ⁻	Very Loose
0.25 - 0.49	Soit	4 - 9	Loose
0.50 - 0.99	Medium (Firm)	10 - 29	Medium Dense
1.00 - 1.39	Staff	30 - 49	Dense
2.00 - 3.99	Very Stiff	50 - 80	Yery Dense
4-CO - 8-00	Hard	30+	Extremely Dense
> 3.00	Very Hard		,

Standard Clause for Unanticipated Subsurface Conditions

"The owner has had a subsurface investigation performed by a foundation consultant, the results of which are contained in the consultant's report. The consultant's report presents his conclusions on the subsurface conditions based on his interpretation of the data obtained in the investigation. The contractor acknowledges that he has reviewed the consultant's report and any addenda thereto, and that his bid for earthwork operations is based on the subsurface conditions, as described in that report. It is recognized that a subsurface investigation may not disclose all conditions as they actually exist and further, conditions may change, particularly groundwater conditions, between the time of a subsurface investigation and the time of earthwork operations. In recognition of these facts, this clause is entered in the contract to provide a means of equitable additional compensation for the contractor if adverse unanticipated conditions are encountered and to provide a means of rebate to the owner if the conditions are more favorable than anticipated.

At any time during earthwork, paving and foundation construction operations that the contractor encounters conditions that are different than those anticipated by the foundation consultant's report, he shall immediately (within 24 hours) bring this fact to the owner's attention. If the owner's representative on the construction site observes subsurface conditions which are different than those anticipated by the foundation consultant's report, he shall immediately (within 24 hours) bring this fact to the contractor's attention. Once a fact of unanticipated conditions has been brought to the attention of either the owner or the contractor, and the consultant has concurred, immediate negotiations will be undertaken between the owner and the contractor to arrive at a change in contract price for additional work or reduction in work because of the unanticipated conditions. The contractor agrees that the following unit prices would apply for additional or reduced work under the contract. For changed conditions for which unit prices are not provided, the additional work shall be paid for on a time and material basis."

Another example of a changed conditions clause can be found in paper No. 4035 by Robert F. Borg published in ASCE Construction Division Journal, No. CO2, September 1964, page 37.

APPENDIX A

Soil Boring Logs

Standard Clause for Unanticipated Subsurface Conditions

General Notes

Procedures Regarding Field Logs, Laboratory Data Sheets & Samples

ASTM Specifications D-1586-67 D-1587-67

Unified Soil Classification System

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		РД	F		saturated	(Fill) Strong to	rpentine-					 	-	
	4	ss		-	type odor	· (Geologist's ol	servation)		75				İ	
10.0		PA.				material (sludge)			7					
	5	SS	Т	H		y brown cinders &		1	82	ļ		•		
	-	KR 23	-	\vdash	(Fill)	usty brown- satur	ated	l					· .	
			Т		(, , , , ,		· :				20] .	j	
			Ш		C+1+4 012	u tuaca anaval	0000		ļ	· '	120		-	
15.0		P.B.	-	-		y, trace gravel, ay- very stiff ((}		1	ļ.	Ì		
	6	ST		Ш	Slight sw		, .	111			*G	px		
			۰		END OF BO	DINC		+01	LIED	TEB	PENET	DOMES	<u> </u>	
					טר שט	IKING		~ C#	LIDIO	ILEL	ENE	אטויוב !	EK	
					Casing us	ed: 10' of 4"					1	·		
					MOTE. So	o "Noll Botail	C 1019 for		+003	g	1 00		L.,	
				·	MOTE: 38	e "Well Detail -	G-101 101	1110111	10111	y we	1 Crit	arace	E : 157	102
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	HE ST	PATIFI	CATI	0 N L	JNES REPRESENT	THE APPROXIMATE BOUNDRY	INEB EETWEEN SC	IL TYPES	: IN-51TU	THE TA	ANSITION	4AV CE	S. INC	
WL 2	1				WAXY WD	BORING STARTED	/22/81	50			G SER IGSTEN		-	-
IVL		BC	R		ACR	BORING COMPLETE	6/22/31	NC	RTHB				S 6005	2
WL	ξ!			-	AR	RIG Rotary FOREN	IANRakor	APP'D	BY MC	S/m<	STS J	09 N	3 .2206	3

OWNER						LOG OF BO	RING	NUMBE	R				
				rny	/ General	_G-102							
PROJE				_		ARCHITECT	r-ENGI	NEER					
SITE L				<u> </u>	ırvey	-		<u></u>	HCONFIN	ED COM	PRESSIVE	STRENG	TH
1				۵re	ea, Chicago, Illinois				ONS/FT.		3 4	5	1
Luke	- 				24, 011,0490, 211,110								
			ANCE						STIC IT%	CONT	TER Ent %	FIMI. FIGE	
z	_	TYPE	STA		December of MATTER	A 1	W.	>)	 -∆	١ ١
£ _	ON		DIST	RY	DESCRIPTION OF MATERI	^L	¥.	1	0 2	0 3	0 40	50	•
ELEVATION DEPTH	AMPLE	SAMPLE	SAMPLE	OVERY			DRY 18./FT.						1
	W.	Ī	M	ECC			UNIT	(5	21	DARD	. 81	LOWS/FT	<u>.</u>
$\square \times$	Ś	ŝ	s/	RE	200	CCD .	7	1			0 40	50	
	7	ss		Ш	"A" Little gravel (Fill)				82	10]	
					Paint sludge				鹵	9/6"	 		
	2	SS			, amo sidage				168	_	1 1		
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5.0	3	ss			Sand and cinder fill -black	c- medium			واهر				
	3	33			dense (SP-Fill)			4	76	<u>l</u>	 		
	4	SS			Silty clay, trace gravel &	cand		68	70	<u> </u>			
					Tight brown- stiff (CL)	Sanu -			2011				
	Ś	CC			1.19.10.51.0411. 2015 1 (055				\		1 1		1
10.0	ס	SS		-[Silty clay, trace gravel,	and and				29		j	ŀ
	6	SS			shale -brown & gray- very s				ł	260		1	ł
				-	hard (CL)					~			
		RB		\vdash					<u> </u>	 			
	7	CC			Silty clay, trace gravel,	sand and					(R)	1	
35.0	7	SS			shale -gray- hard (CL)								
					END OF BORING								
					·				•		1		
					tAt - Clayey topsoil, trace	e sand & r	oots	-dari	bro	vn (ا	H-Fil	1)	
					Casing used: 10' of 4"				-				
					casing used. 10 01 4				ł		!		
					NOTE: Consistency of clay	based upo	n Sta	ndard	Pen	etrat	on T	ests.	}
				·	See "Well Detail -	G-102" for	moni	tori	g we	1 ch	pract	erist	ics.
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	HE ST	PATIFI	CATI	ON 1	INCE REPRESENT THE APPROXIMATE SOUNDRY LI	NES PETWEEN SO	HL TYPES					SHADUAL	
WL	4.5'				WS WE BORING STARTED6/2	4/81	SC				₹VICES	S. INC	
WL										IGSTEN			_
}									ROOK		ZICNIL.		===
WL					RIGROTARY FOREM	an Baker	APP'D	SY HE	15/ms	Sis 1	OB NO	-22050	<i>:</i>

OWNE	R	•				<u> </u>		LOG OF BO	RING	NUMB	ER					
	Illi	noi	s	Att	torney Gen	eral		G-103			\ 					
PROJE								ARCHITEC	T-ENG	INEER						
				tic	on Survey		· · · · · · · · · · · · · · · · · · ·	<u> </u>		16	**************************************					
SITEL					L Auga - C	bieses II	linois		İ		NEONPII OHS/FT.		-	E STREN	•	
}	Lake	<u> </u>	_		Area, C	hicago, Il	111015		ł	 -	}	2			-	
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은	ON N	=	DIST	È		SCRIPTION C	F MATER	HAL	} }		10 :	20 3	0 4	10 !	0	
ELEVATION DEPTH	3	SAMPLE TYPE							DRY WT.		•					
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	=	RB	F		light bro Wo notice	wn- extr.	dense (F113)	}	├	-	 	 		\vdash	
			\vdash	-	1				1					1		
	2,	SS		+		fill with		agments -	Ì	ł	22	X<	L			
5.0		RR	片		igray- m e a	ium dense	([[]]		ļ							. سر
			IT	\coprod	N				I				1			ত। ই
	3	SS	Ш			fill satur	-		1	ľ						~
		RH	\vdash	\mathbf{H}		strong org			ł			ر ا	 	T		
	4	ss			very dens	e to extr.	dense	(F111)	ĺ		198	1			i 1	
70.0	-	RB	\vdash						<u> </u>				<u> </u>	<u> </u>		
			П		Silty cla	y, trace g	ravel,	sand and		19	9					
	5	SS	Ш			own & gray				, ,				}		
		RB			chemical	ery stiff	(CL) 3t	rong		l		} .		1		
	6	ST		Щ	$K = 1 \times 1$				107	1	1	KC +	*		1	
15.0	Ĭ	RB	Ľ		V - 1 V 1	o chiysec				į].					
			$\ \cdot\ $						109	Ì		boil	n xic		1 1	
	7	ST	Ш	出	Silty cla	y, trace g	ravel,	sand and '				1				
		KR	1			own & part	ly gray	- hard				.\]			
	8	ST		Щ	(CL-CH)				105			•	1	×0->	—	
20.0		RВ	Ľ		Silty cla	y, trace g	ravel.	sand and		 	 	/				
					shale -gr	ay & littl	e brown	- very	,,,	ļ		\ *c		k	1 1	
22.0	9	ST	Ш	片	stiff (ČL	ay & littl } K = 3 x	10^{-7} cm/	sec	111							
					END OF BO	RING			*c/	LIBR	TED	ENET	ROMET	ER		
									"		}]]			
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		1			NOTE: Se	e "Well De	tail -	G-103" for	moni	tori	g we	1 ch	hract	erist	ics i	
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					L				<u></u>			1				
-	THE ST	RATIF	CAT	ON I		THE APPROXIMATE	BOUNDRY L	INES BETWEEN SO				_		S. INC		
WL					WS OR WD	BORING ST	ARTED 6	/26/81	l s'			G SE! IGSTEN			-	
WL		BC	R		ACR	BORING CO	MPLETEI	6/26/81	N	CRTHE				S 6006	2	
Wi							AMaker						2.2206			

OHNER								LOG OF BO	RING	NUMB	ER				
				orr	ney Genera	.7		G-104							
PROJE				n (Survey			ARCHITEC	r-ENGi	NEER					
SITE				-	our vey			L					PRESSIV	E STREM	3TH
Lak	e Ca	lum	et	A۱	rea. Chic	ago, Illino	is		·	7	ONS/FT.	2 2	3 .	4	5
				-						PLA	STIC	WA	TER	LIG	UID
_		ш	Z		1						нт % ——	COHT	ENT %	LIM 	IT %
ğ	Q Z	TYPE	rsic	≥	DE	SCRIPTION OF	MATER	IAL	\$	ľ	•	.0 3	10 4	.0 :	-
ELEVATION	<u> </u>		BAMPLE DISTANCE	COVERY	1				UNIT DRY WT LBS./FT. ¹				•		
ELE	SAMPLE	AMPLE	Ā	8					=======================================	ó	X)	DARD	_		_
	Š	5	Y 8	RE	SURFACE I	ELEVATION	+15.7	CCD ·	Š		. •	TRATIO	•	LOWS/F	τ. Ο
	$\pm A$	22			ngn										
	1B			Ļ	Tar-like	material (s wood & brick	ludge)	-trace			<u></u>	ļ	<u> </u>		
	2	SS			paint odo	or	(F111)) strong		l	l	}	1	Į	5-A
		PA-	Ш	Ψ	Sandy & o	ravelly fil	1 mate	cial trac	_	ŀ		1			
5.0				F	brick & w	ravelly fil good -black 11) Strong	a gray	- very							
	3	SS			pense (F1 (pH = 9 t	11) Strong :o 10)	paint o	odor			21	X	}		
		PΑ		Ŀ	Sandy tar	-like fill:	materia	al -black					1		•
	4	SS			& gray- m	ed. dense -	satura	ated at		}	B III				
10.0		PA	H	Ė	ום וג (דגג	.1.) Strong to	urpent	the odor		68	1				
	5	SS	П	Ц	Silty cla	y, trace gra	avel &	sand -			No.	10	ļ		
		DD.	Н	-	brown & g	ray- very s	tiff ((CL) Slight			_		•	i .	
		RB		Ĺ	Standard	ray- very s or - Consist Penetration	Test	zseu on		<u> </u>	<u> </u>				
15.0		RB			Silty cla	y, trace gray-	avel, s	sand and							1
				П							ŀ.		ρΧ		
17.0	6	SŦ		Ш					111		1		γ ^		
					END OF BO	RING			*CAL	IBRA	ED P	NETR	рмете	R	
												١.			
						yey topsoil nt-like odo		e wood, si	ag &	pain	res	due	[F1]])	
					"B " – San	dy and grave	elly fi	ill materi	al (8	iii)					
					Str	ong paint-l	ike odo	or (pH = a	to 9)	1	}			
					Casing us	ed: 10' of	4"					1			
					NOTE: Se	e "Well Deta	ail - 6	i-104" for	mori	tori	g ve	1 ch	aract	erist	ics.
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	THE ST	RATIF	CATI	0 M	INES REPRESENT	THE APPROXIMATE S	OUMDRY LI	NES SETWEEN SO	IL TYPES	: 18-5170	. THE TR	ANSITION	WAY BE	GRADUA	
W1 6	:				WS	BORING STA	RTED 6	/22/21	5 0		ESTIN III PFIN		RUAD	3. INC	•
WL		ВС	R		ACR	BORING COM	PLETED	6/22/81	N C		RUOK		LINOIS	5 6006	2
Mr						RIGRotary	FOREM	A Baker	APPID	BY M	S/ms	sīs J	OB NO	-2206	3

OWNE	R					LOG OF BO	RING	NUMBER			
Illir	nois	At	toı	rne	y General	G-105					
PROJE						ARCHITECT	-ENGI	NEER			
Conta				Su	rvey	<u> </u>	r	1-			
SITEL				N 10-00	. Chicago Illinois			TOHS/FT		SSIVE STRE	INGTH
Lake	Lai	<u>ume</u>	_	T	a, Chicago, Illinois I			 	2 3		
ELEVATION DEPTH	BAMPLE NO.	AMPLE TYPE	SAMPLE DISTANCE		DESCRIPTION OF MATER	RIAL .	IT DRY WT. LBS./FT.	PLASTIC LIMIT %	WATER CONTENT		901B
	BAM	SAM	SAM	REC	SURFACE ELEVATION +15.2 CO		Z Z	⊗ STA PEN	MDARD ETRATION 20 30	BLOWS/I	7T.
	1	SS RB			Cinder fill, little grave very dense (Fill) Strong	l -black- paint odor					
	_		-	扞	À				30		
5.0	2	SS RB	Ш		Brick fill, little clayey -red & black- (Fill) Stro odor	topsoil ong paint					
	3	SS			odor			68			
		RS.		-	Sandy clay, little silt -	onown and	,				
10.0	4	SS RB			gray- stiff (CL) Moderate odor. NOTE: Consistency Standard Penetration Test	paint based on		\$ 11			
			T	П	standard renetration test		119	,		ļ	
	5	ST	1			·	119	j j			
	6	ST						2	17		
5.0		Fï			Silty clay, trace gravel,	sand and					
	7	ST			shale -brown & gray- hard	(CL)	114	9		*4-0*	
		FT			· · · · · · · · · · · · · · · · · · ·					<u> </u>	
26.0		FT			Silty clay, trace gravel, shale -gray- very stiff (sarid and (CL)					
	8	ST		Ш			110	;	*c / c	×	
		FT			•	·			j /		
25.0				H					1 /		
	9	ST		Ш			109		\$- - -¢*		
		FT									
					•						
30.0	10	ST	\dashv	\vdash			İ		3		-
	TOA	- 	+	+	Silty clay, little sand, t	race	128	•			
		Fi			gravel & shale -gray- hard	(CL)			<u> </u>		
						Ì				\	
35.11			┰┨			1	j				
77-11	17	ST		l fa							
			7	7	Continued on Next Page	\Rightarrow			Fau	e l of	3

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OWNE						OG OF BO	RING	NUMB	ER				
				rne	ey General		5 (co						
PROJE						RCHITEC	T-ENGI	NEER	•				
				Su	rvey		· · · · · ·						
SITEL					- 01: 737:				CONF PRB/FT	INED CO	MPRESS	IVE ST	REI
Lake	<u>Cal</u>	ume T	t / Гш	4re	a, Chicago, Illinois	· ·	1	ļ	1	2	3	4	
ELEVATION DEPTH	SAMPLE NO. SAMPLE NO. SAMPLE TYPE SAMPLE TYPE SAMPLE DISTANCE SAMPLE DISTANCE SAMPLE DISTANCE SAMPLE DISTANCE SAMPLE NO.		DESCRIPTION OF MATERIA		T DRY WT. BS./FT.	PLASTIC WATER LIMIT % CONTENT % 10 29 30 40							
	SAM	SAN	SAM	REC	SURFACE ELEVATION		CNIT	1	8 ?	ANDARD NETRATI 20		blows	/F
					Continued from Previous Page	2						T	Ĭ
37.0			<u> </u>	_			ļ		<u> </u>		┧	-	4
		FT			Silty clay, little sand, tra gravel & shale -gray- hard (ce (CL)			,				
40.0		_	-	H	$K = 2 \times 10^{-8} \text{ cm/sec}$								
	12	ST			2 % 25 6, 556								
		FT											
45.0			-										
	13	ST		Ш			125	İ	•				
		FT							j				
		,				-					1	.	
50.0													
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	74	SS			•								
	14		4							1			
55.0		EI		\vdash									
	35	SS	1			1							
		FT	ļ										
			ļ										ļ
50.0			-	=	Clayey silt, trace gravel, s	and and				1	-		\dagger
	k6	SS	$\perp \downarrow$	_	shale -gray- extr. dense - m	noist							
		FI			(ML)								
	Ì		-										
3F.O					Broken hadrock and/or bould-	nc.		j					
	17	SS			Broken bedrock and/or boulde NOTE: Revert used at 66 ft t	o stop				-	<u> </u>	-	1
		RB	\prod		cave-in.							†	
53. Ú		1/D	4	+	Limestone bedrock]	+00	TDDM	TED	DENIET	DOMET	<u> </u>	+
		j	1		END OF BORING	į	~ CA	LIBR/	IEU	PENET	KUME I i	ڊ د	
	1	- 1	- 1	ì	Continued on Next Page	}	ł	i		1	!	l	1

OWNE	R						LOG OF BO	RING	NUMBI	ER		_		
			_	rne	y General		G-105 (cont.)					
PROJE				C .			ARCHITEC	T-ENG	NEER				1	
Cont			_	<u>ک</u> ر	irvey		<u> </u>		<u> </u>	HCOH#1	IFD COM	-	E STREN	STM .
1				۵ne	a Chica	ago, Illinois				DNS/FT.	2	3		5
Lake	Cai	ume			a, critca	190, 111111013		1			-			
		1.4	SAMPLE DISTANCE					PLASTIC LIMIT %			CONTENT % LIMIT %			
ELEVATION DEPTH	<u>o</u>	Ιdλ.	181	>	DE	SCRIPTION OF MATER	IAL	UNIT DRY WT	l í	•	20 3	o 4		20 7
14 AT	AMPLE NO	AMPLE TYP	Ш	COVERY				YE -				,		
ELEVAT	T I	MP	Ĭ	00					Q	STAR	IDARD			
	84	84	8	RE	SURFACE	ELEVATION		3			TRATION	•	LOWS/F	r. 0
					Continue	ed from Previous Pa	ige			-				
					NOTE: S	See "Well Detail - Obstruction encoun	G-105" fo	r mon	itori	ng w	11 c	arac	teris	tics
					0	Obstruction encount	tered at 1	-5 ft	. Bo	ring	offs	t 4	ft no	rth
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					Casing t	used: 10' of 4"					}			
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	C	ATIFI	CATI	9M L	INES REPRESENT	THE APPROXIMATE SOUNDRY LI	VES BETWEEN SO				ANSITION		GRADUAL S. INC	
WL	6'				WS on WD	 	/23/81	30			G SEN		J. 1176	••
WL		BC	R		ACR	BORING COMPLETED	6/23/81		RTHB				5 6006	
WL						RIG Rotary FOREM	N Baker	G.ody	BY MA	S/ms	STS J	OB NO	2206	3

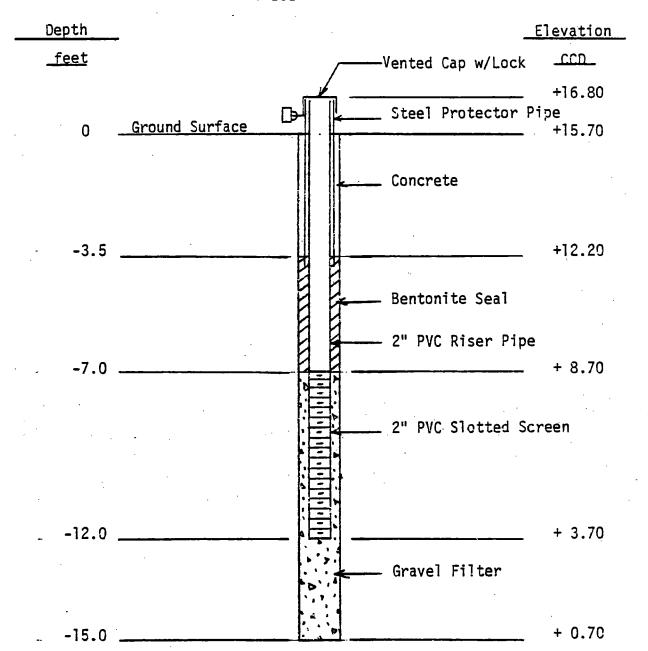
OWNE	R			_		·		LOG CF BO	RING	NUMBI	ER				
171	inoi	s A	tt	orr	ney General		İ	G-106							
PROJE	CT N	AME	-					ARCHITEC	T-ENG	NEER					
Con	tami	nat	io	n S	Survey			<u></u>							
SITE L											NCONFIR ONS/FT	ED COM	PRESSIVI	STREN	STH
Lak	e Ca	lum	_	_	ea, Chica	go, Illino	is					2 			5
			CE							PLA	STIC	WAT	TER		UID
		ш	N.								ιτ% ← −−	CONT	ENT %	ĻIM! ∕	17 % ∖
ğ	O _N	7	DISTANCE	_	DES	CRIPTION OF	MATER	AL	∑ ↑	1 1	•	:0 30	2	o 5	
ELEVATION DEPTH		<u> </u>							₹ [-	·				<u> </u>	
ELEVAT Depth	AMPLE	1	1	Š					E 88						
		SAMPLE TYPE	SAMPLE	REC	SURFACE E	LEVATION +	9.9 CC	D	UNIT DRY WT LBS./FT.3	1	S PENE	IDARD TRATION		LOWS/F	
			8	₩			·					3	0 4	<u> </u>	<u> </u>
	TA.	SS	$\!$	-	Granular f	ill -black arse sand	-rust (SP)		8	8	ļ		 	
		SS	П		"A"					₹· &	9				
	2A	<u> </u>	$\!$	Щ.	Med. to co	arse sand	-rust ((SP)	<u> </u>		8	ļ			
		ST	十						110			⊀ ⊙			
5.0	<u> </u>		╙	Ш	C47414 67 51		augl d		110	1					İ
	4	ST	Ш	Щ		, trace graphs of the contract			Ì) لا					
	 -	PΆ	Щ		grav- stif	if to very	stiff (CL)			}		Ì		i
	-5-	22	${\mathbb H}$						<u> </u>		8	6			<u> </u>
	<u>5A</u>		oxed	Щ		, trace gra					3	8			ĺ
10.0		PA		Ц		y- very st	177 (CL	-)							l
	6	ST			K = 3 X 1	.0 ⁻⁸ cm/sec	· .		113				×		ĺ
				7		•									İ
		PA ST													
	7	01							107			o. o.k		1	i
14.5		_	\vdash		END OF BOR	TNC			+001	TDDA	LD 0	ENETR	METE		
					END OF BOR	(1)(6			^CAL	ITDKA	בט ר	ENEIR	ייים ו	T .	l
					"A" - Silt	y clay, li	ttle to	opsoil -br	own.	gray	and	lack	(CL)		İ
													`/		İ
							•								İ
					NOTE: See	"Well Deta	il -G-1	06" for	menit	oring	wel	cha	racte	risti	cs
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-	THE ST	ATIF	CATI	ON L	INES REPRESENT T	THE APPROXIMATE	OUNDAY LIE	NES BETWEEN SO	IL IVEC	II IN-BITU	THE TR	ANSITION	WAY BE	CRADUAL	
WL									G SEF						
57 207 01					1	II PFIN	IGSTEN	ROAD							
WL BCR ACR BORING COMPLETED 6/26/87			5/26/81	40	ORTHB	ROOK	11	LINOIS	5 6006	2					
WL					1	RIG Auger	FOREMA	M Baker	APP'D	BANGS	S/ms	STS J	ов ис	-2206	3

OUNED						LOG OF BO	RING	NUMBE	R				
OWNER Illino	is'	Αt	toı	rne	ey General	G-132							
PROJECT						ARCHITEC	T-ENG	INEER					
Contam				Su	ırvey								
SITE LOC			-				ł	10	NCONFIR DNS/FT.		PRESSIV	E STREN	GTH
<u>Lake C</u>	<u>alı</u>	ıme		Are	a, Chicago, Illinois		1	 		<u> </u>	3	4	5
ELEVATION	ON	SAMPLE TYPE	SAMPLE DISTANCE	RY	DESCRIPTION OF MATE	LIMIT% CONTENT%			●				
Y E		H		44					+				
ELEVAT	AMPLE	7	4PL	COV			D STANDARD						
	₹n	SAI	SAN	RE	SURFACE ELEVATION +79.8	CCD	EN S	PENETRATION BLOWS/FT					т 50
				П	Sandy & gravelly fill (cr	ushed							
		SS			stone) - It. gray- medium	dense to				ļ		ر ا	
	, (SS	П		very dense ≬Fill) Very h level	iign ph	}			268]
		_			16761					100	\		
5.11	, T.			\coprod	Mood - no sample recovere	ed .					`	8	47
=======================================	<u>`</u>	SS	Щ			Sample recovered				<u> </u>	<u> </u>	[<u> </u>
		SS	Щ	Ш				<u> </u>		<u></u>	<u> </u>	1-8	49
	A	ب	Щ	Щ	Clayey fill, trace gravel wood -black & gray- very	1		2!	Ø22			1	
	A	SS	\mathbb{H}	Ш	Very strong paint odor					8.55	 	 	
	~+	_	Щ	Ш	\ <u> </u>	1	{	198		1			
	5	SS		Щ	dense - saturated with oi	ly cinder fill -black- medium use - saturated with oil				×	27		
		<u> </u>				•		-	14		-	 	
	7 5	SS		Ш	Silty organic clay -black	ganic clay -black- stiff to			48			<u> </u>	
15.0	A,	7R	Ш	Щ	very stiff (OH)		l		, ,	19	Ī		l
8		SS	П	П		· i	}	1 1					l
= `		ر,			Silty clay, trace gravei,	sand and				§ 2-	T		1
	7	₹B.		F	shale -brown & gray- very	stiff (CL)			/	ľ	ļ		1
=======================================	, 18	SS							168	i		l	
20.0	_	?R.	Ш		Silty clay trace gravel	sand and		 	<u> </u>	\ _	 	 	
10		SS	j		Silty clay, trace gravel, shale -gray- hard (CL)	שווט טווט		i I		27 💆			
	1.		Ш		<u> </u>					-' ~		!	
	_‡	B	\square									Ī	
		SS									8	39	
25.0	- 	į	Ц		END OFBBORING		 					<u> </u>	
		-			NOTE: Obstruction encoun	tered at 1	E ++	1	ina	recet	E f+		h
		- }			Consistencies of c]''
		j			See "Well Detail -	3-132" for	moni	cring	ME !	cha		risti	cs.
								[]			Į	}	
===							1]]				İ	
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							L.					_	
THE	STRA	TIPI	CATI)M L	INER REPRESENT THE APPROXIMATE SOUNDRY	LINES SETWEEN SC		. IN-SITU				GRADUA	
WE WS OF WD BORING STARTED6/25/97					/25/91	S.	OIL TE						
ML BCR ACR BORING COMPLETED 6/25/87				,,,	:: IB⊀TRC			i road Linci	S 6006				
RIG Rotary FOREMAN Baker					MAM Baker	APPIC	BY MG	S/msi	STSJ	NO BON	² ·2206	3	

OWNE	R					LOG OF BO	RING	NUMBI	ER				
		At	to	rne	ey General	G-133							
PROJE				_		ARCHITEC	T-ENG	NEER		· · · · · ·	-		
Cont	amir	nati	on	Sι	ırvey								
SITE				•					NCONFIN ONS/FT		PRESSIV	E STREN	3TH
Lake	Cal	ume	_	_	ea, Chicago, Illinois		ļ			2 :	3		
		W W	LANCE						STIC IIT %	WA CONT	TER ENT % D — — —		010 3° 71
ELEVATION DEPTH	02	SAMPLE TYPE	018	≿	DESCRIPTION OF MATERI	AL	DRY WT.	(•	:0 3	0 4		
₹ E	u.	<u> </u>					Ϋ́F			·		•	
ELEVAT DEPTH	AMPLE	Ē	SAMPLE	Ó			} ⊢ =		CA STAR	DARD			ļ
- 	SAI	SAI	8	R	SURFACE ELEVATION +17.4 CC	D	Ž	?	S PENE	TRATION		LOWS/F	
			ΙŤ	Т	Clayey topsoil, little wood	. trace				T			
	1	SS		Ш	roots -dk. brown (OH-Fill)	,		}	එක	<u> </u>			
		RB	H	-		7 1	 			 			
	2	SS		上	Saturated wood fragments - L (Fill) Sample 3: not recove	olack-	Ì	1					x 50
5.0		000	Ш	_	(FIII) Sample 3: NOT recove	ייפט	[_			
<u> </u>	3	RB SS	П	T									
	٦	ادم		广	Gravel fill -light gray- ex	tr dense	ł	68:	<u> </u>	-	L	1	
		22 22	<u> </u>		- saturated (GP-Fill) Very	v hiah	 	<u> </u>					14
	4		-		pH level		İ	}	1				
10.0		RB RB	L						<u> </u>				<u> </u>
. 3.0	 -	1		\top	Sandy clay fill (slightly t	ar-like),			i				
	5	SS		 	trace wood, gravel & roots very stiff (Fill) Paint odd	-DIACK-		ŀ	188		j .		
	=	RR	H		<u> </u>		 -	 	/	 		-	
	6.	SS			Silty clay, trace gravel, s	and and	·		≅्।।				.
15.0			世		shale -brown, gray & black- very stiff (CL) Paint odor	· stiff to				196			
17.17	_	RH SS	Т							5			'
	l ′	ار			Silty clay, trace gravel, s			11	×	t			
		КR			shale -grayish brown- stiff	. (CL)	<u> </u>		 			-	
	8	SS			Slight paint odor					8	28		
			出	L	Silty clay, trace grave!, s	and and		-	 	 	B 15	_,	
20.0	 —	RБ	-	\vdash	shale -grayish brown- very hard (CL)	Stiff to			l	/	<i>y</i> /		
	9	SS							ļ	270			
		RB	Н	\vdash	Silty clay, trace gravel, s shale -brownish gray- very	and and			Į				
		מא	H			STITT to			ĺ				7
	10	ss		Ш					}			İ	×
25.0	<u> </u>	-	H	H	END OF BORING								
	}	İ						,					
					NOTE: Consistencies of cla See "Well Detail - G	y based o	n Sta	ndard	Pene	trat	on T	ests.	
					See Well Detail - 5	1-133 Tor	ז רמסוון	מַתּניזם	well	cnar	acte	ולאני	cs.
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		li							i :				
	THE 91	RATIFI	CATI	ON 1	INES REPRESENT THE APPROXIMATE SOUNDRY	NES SETWEEN SO	HL TYPES	: IM-517U	STIM	ANSITION	WAY BE	S, INC	
WL 3.8 WS TAND BORING STARTED 6/24/81				, 50			CSTEN		J. 114C	·			
WL BCR ACR BORING COMPLETED 6/24/81			NO	PRTHB				5 6006	2				
wi RIGROTARY FOREMANDAKER			Maker						2206				

SOIL TESTING SERVICES, INC.	DATE 7/27/81	PAGEOF
CLIENT Illinois Attorney GeneralsTS JOB NO 22063	BY MGS	снк

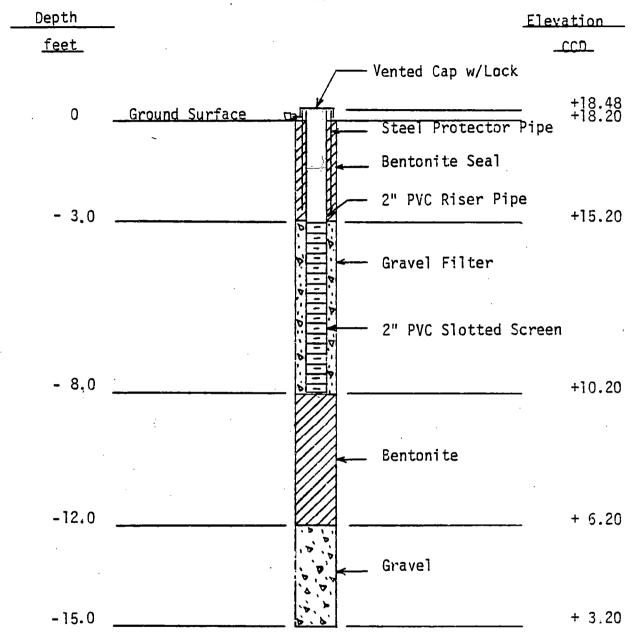
WELL DETAIL G-101



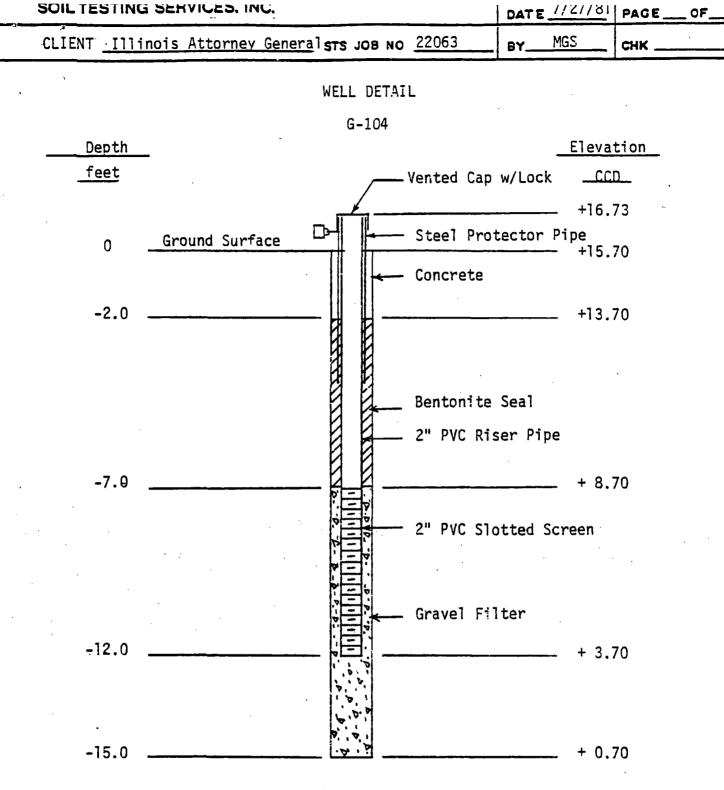
 SOILT	ESTING SERVICES, INC.	DA	re <u>7/27/8</u> 1	PAGEOF	_
CLIENT	Illinois Attorney General STS JOB NO 22063	BY.	MGS	снк	
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WELL DETAIL

G-102



SOIL TESTING	SERVICES, INC.		DATE 7/27/81	PAGEOF
CLIENT Illino	is Attorney General	STS JOB NO 22063	BY MGS	снк
,	WE	LL DETAIL		
	WE	G-103		
Depth	•	4-103	<u>Eleva</u>	tion
feet	•		. CC	_
		Vented Cap	w/Lock	
0	Ground Surface [Steel Prote	+14 ector Pipe +13	.24
- 1.0		Concrete		
1.0		301101 232	 +ī2	.70
		Bentonite S	Sea 1	
		Bentonite S		
- 5.0			+ 8	.70
		2" PVC Ris	er Pipe	
			· ·	
		Gravel Fil	ter	
		0		
-10.0			+ 3	.70
		圖		
				•
		2" PVC \$10	tted Screen	
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• •				
-20.0		· [表]	6	.30
		, a.		
-22			- 8	.30
				_



SOIL TESTIN	G SERVICES, INC.	<u> </u>		DATE 7/27/8	PAGE	OF
CLIENT 111	inois Attorney Gene	ral STS JOB N	22063	BY MGS	_ снк	
,		WELL DETAI	Ľ ·			
,		G-105				
Depth				Elev	ation	
<u>feet</u>			_Vented Cap	w/Lock C	CD .	
				+1	6.13	
. 0	Ground Surface		- Steel Prot	tector Pipe	5.20	
					•	
·	,					
					'	
			_ Grout			
# ¹					į	
	·					_
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		· [] []				
•	,		2" PVC Ris	er Pipe		
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	-					
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						•
-21.0		- -	- -		.80	
		11 11				

SOIL TESTING SERVICES, INC.	DATE 7/27/81 PAGE OF				
CLIENT <u>Illinois Attorney General</u> 51	rs JOB NO 22063	BYMGS	снк		
Depthfeet_	L DETAIL (cont.) G-105		levation CCD		
-21.0			5.80		
	Grout				
	2" PVC Ri	ser Pipe			
-35.0		-1	C.80		
·	Bentonite	Seal			
-40.0		2	4.80		
-42.0	Bore hole	cave-in (sa 	and) 5.80		

	CLIENT IIIino	<u>is Attorney</u>	General	STS JO	B NO	22063	. BY	רטרו	CHK	
,			W		TAIL G-105	(cont.)				
	Depth	_	-					_E1eva	tion	
	feet							_ 		
	-42.0 _			-	_	<u>.</u>	_	26.8	0	
	•									
						21 2 2				
						2" PVC R	iser P	ipe		
							·			
							٠			
					-	Bore hol	e cave	-in (san	d)	ı
	•		·							
	-59.7 _					·· -· -· -· -· -· -· -· -· -· -· -· -			7	
		7.				2" PVC S	lotted	Screen		1
	-63.0 _							47.8)	
				in k						

DATE 7/27/81 PAGE ___ OF___

SOIL TESTING SERVICES, INC.

•	WELL DETAIL (cont.)	
	G-105	
Depth	•	<u>Elevation</u>
<u>feet</u>		CCD
-63.0 <u> </u>		47.80
	Bore hole cave	e-in (sand)
	2" PVC Slotted	d Screen
-69.7 70.0		54.47

DATE 7/27/81 PAGE ___ OF_

CHK _

MGS

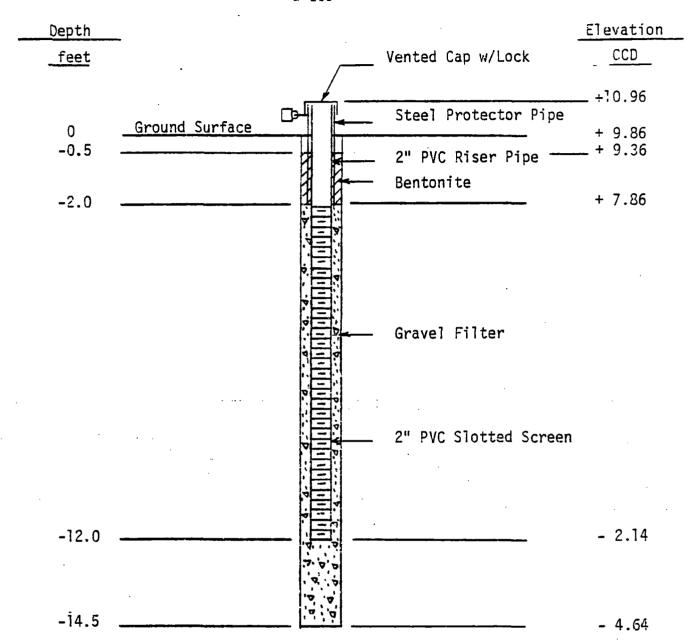
BY_

SOIL TESTING SERVICES, INC.

CLIENT Illinois Attorney General STS JOB NO 22063

SOILTE	ESTING SERVICES, INC.	DATE 7/27/81	PAGEOF
CLIENT	Illinois Attorney GeneralsTs JOB NO 22063	BYMGS	снк

WELL DETAIL G-106



SOIL TESTING SERVICES, INC.	DATE 7/27/81	PAGEOF	
CLIENT Illinois Attorney General sts J	OB NO 22063	BYMGS	снк
<u>Depth</u> WELL D feet G-1		v/Lock	<u>D</u>
0 <u>Ground Surface</u>	Steel Prote	+20. ector Pipe	40 80
-1.0	Concrete	+18.	80
-5.0	Bentonite S		
-5.0	2" PVC Ris	+14.	80
B B D B D B D.	Gravel Fi	lter	-
-15.0		+ 4.	80
	2" PVC S10	otted Screen	
-25.0 <u> </u>	<u> </u>	- 5.	20

SOIL IESTING	DATE 7/27/81 PAGE OF						
CLIENT Illir	nois Attorney Gene	ra l _{STS}	JOB NO	22063	BY MGS	_ СНК	
Depth			DETAIL		Elev	ation	
<u>feet</u>		G-:	133 '	Vented Cap	w/Lock	CD	
	-	_ 1				3.05	
0.	Ground Surface		-		tector Pipe	. 40	
-1.0		∦		Concrete		5.40	
	•						
		H		Bentonite	e Seal		
-5.0						2.50	
		4					
		7					
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		· P	4				
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		7		Filter G	ravel	•	
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		,		OH BAC D	icom Diro		
				2 PVC R	iser Pipe		
•		P = 9	9:				
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-19.0		 	<u> </u>			1.60	
		-					
				2" PVC S	lotted Screen	1	
		7		, - -			
-24.0 _		_	∄ }		6	5.60	
-25.0 _		.2.	<u>, 0</u>	<u> </u>	7	.60	

APPENDIX C

Test Pit Logs

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OWNE	R					i	LOG OF TE	ST PI	T					
Illi	nois	At	to	rne	y General		TP-1							
PROJE	CTN	AME					ARCHITEC	T-ENG	NEER					
Cont	amin	ati	on	Su	rvey									
SITE L	OCA	TION	•							CONFIN		PRESSIVE	STRENG	ВТН
Lake	Ca1	ume	t /	٩re	a, Chica	go, Illinois		<u> </u>	1				:	3
ion	O.	AMPLE TYPE	SAMPLE DISTANCE			SCRIPTION OF MATER	IAL	UNIT DRY WT. LBS./FT.3	PLAS LIMI	-	CONT	TER ENT % D	LIO LIMI — — —	_
≯ F	1	LE	Ш	COVERY	•			80 W						
ELEVAT DEPTH	ı I	A X	1	3				= 9	8	STAN	DARD			
	VS.	75	8	RE	SURFACE I	ELEVATION		Z -	و ا	PERE	TRATION		LOWS/FT O S	
			Ť	П	Missella	noous fill - wood	motal.							
		<i>(</i> .			sand, si	neous fill - wood, lt, large concrete ntainers - strong ill)	blocks.							
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	HE ST	RATIF	CATI	ON L	INES REPRESENT		NES OUTWEEN SO		I IN-KITU					
Wt.					WS OR WD	BORING STARTED 6	/29/81	50			G SER GSTEN		s. INC	.
WL		ВС	R		ACR	BORING COMPLETED		NC	ORTHBI				5 6005	2
WL						RIGBackhoe FOREM								

OWNE		1					LOG OF	TECT	DIT	 	
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PROJE				LUi	ney Gener	aı	ARCHITEC	T-ENG	INEER		
1				on	Survey			_			
SITE L			_		<u> </u>						SSIVE STRENGTH
l .				t A	rea, Chi	cago, Illinois			TONS/FT.	2 3	4 5
			٠	_		 		1	PLASTIC	· · ·	LIQUID
			SAMPLE DISTANCE						LIMIT'4	CONTENT	% LIMIT %
NO	o i	/PE	ST.		DE	SCRIPTION OF MATE	RIAL	3	X		
ELEVATION	SAMPLE NO	AMPLE TYPE	٥	COVERY				UNIT DRY WT	10	20 30	40 50
ELEVAT OEPTH	PLI	PLE	PLE	ò				200	}		
0	¥	MA	Y	REC	CUBEACE	ELEVATION			(X)	NDARD ETRATION	BLOWS/FT
$\vdash \bowtie$	S	8	8	æ	SURFACE	ELEVATION		-	10	20 30 1 1	40 50
					Miscella	neous: fill - woo	d, metal,				
					sand, si	lt, large concre	te blocks,			1 1	
						ntainers -strong				1 1	
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141.					WS OR WD	BORING STARTED	/29/81	S	OIL YESTIN	G SERVI	
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WL						RIGBackhoe FORE					

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OWNE			_		_	-	LOG OF	CSI P	111			
PROJE	linc	is.	At:	tor	ney Gener	al	TP-3	T.ENG	MEED			
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SITEL				<u> </u>	Survey		<u> </u>	1	- UNCONFI	NED COMP	RESSIVE S	TRENGTH
1				+ ^	lnoa Chi	cago, Illinois			YOMS/PT			5
<u> </u>	Ke (alu			rea, cm	cago, Titinois		1			-	
			ANCE	ĺ				Ì	PLASTIC LIMIT %	WAT	•	LIQUID LIMIT %
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ELEVATION DEPTH	2	SAMPLE TYPE	SAMPLE DIST	λ.	DE	SCRIPTION OF MATER	IAL	₹2	! o	20 30	40	50
ELEVAT Depth	AMPLE NO	u i	щ	COVERY				UNIT DRY V				
1 E	Q.	2	Į.	00				<u> </u>	62 STA	NDARD		
	8	Y8	BAI	RE	SURFACE E	ELEVATION		3	_	ETRATION 20 3:		:WS/FT 50
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3.0		<u> </u>	上	\vdash				 	 			
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		<u> </u>			Slag -wh	ite- hard (Fill)		1		1		
					END OF T	EST_PIT		1				
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WL	1	.75	1		WS OR WD	BORING STARTED	/29,81	=(G SER		1140.
WL		80	R		ACR	BORING COMPLETED		N.	RTHBROOK		LIMOIS	30062
WL			•			RIG BackhoeFORIM						

OWNE							LLOC OF T	CCT D	7.7					
1					01		TP-4	E31 P	11					
PROJE	nois CT N	AT	<u> LO</u>	rne	ev General		ARCHITEC	T-ENG	NEER					
				Su	irvey									
SITE L			_		····							PRESSIV	E STRENG	тн
Lake	Ca1	ume	t /	٩re	a, Chica	go, Illinois			T	DNS/FT :	_	3 .	4 5	5
			_			<u> </u>		1						U:D
1			N							STIC IT%		TER ENT %	LIM	
Z	o.	PE	ST/		05	SCRIPTION OF MA	TEDIAL	¥.	>	←	(7
ELEVATION DEPTH	AMPLE NO	AMPLE TYPE	SAMPLE DISTANCE	COVERY	JE	SCRIPTION OF MA	IENIAS	UNIT DRY WT	<u>'</u>	0 2	0 3	• 4	• •	0
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Et.	MY	MA	¥	REC					(IDARD		LOWS/F1	•
$\square \times$	Ŋ	8	/5	R	SURFACE	ELEVATION		2					0 5	<u> </u>
					Miscella	neous fill - sa	and, gravel,				1			
					concrete	& wood - satura	ated at	j						
					3.5 ft (Fî11)		}						
4.0			Ш				<u> </u>				ļ	ļ		
					Silty cl	ay -brown and l	olack	1						
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			ANCE						١.	PLAS	T%	CONT	ENT %	LiMi	
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l				Are	ea, Chica	go, Illinois			TONS/FT.	_	9	•	5
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WL		ВС	R		ACR	BORING COMPLETE	6/29/81	NO	RTHB				5 5000	2
WL						RIGBackhoe FOREN	Artrowley	APP'D	BYIGS	/ms	S75 J	OB NO	22063	

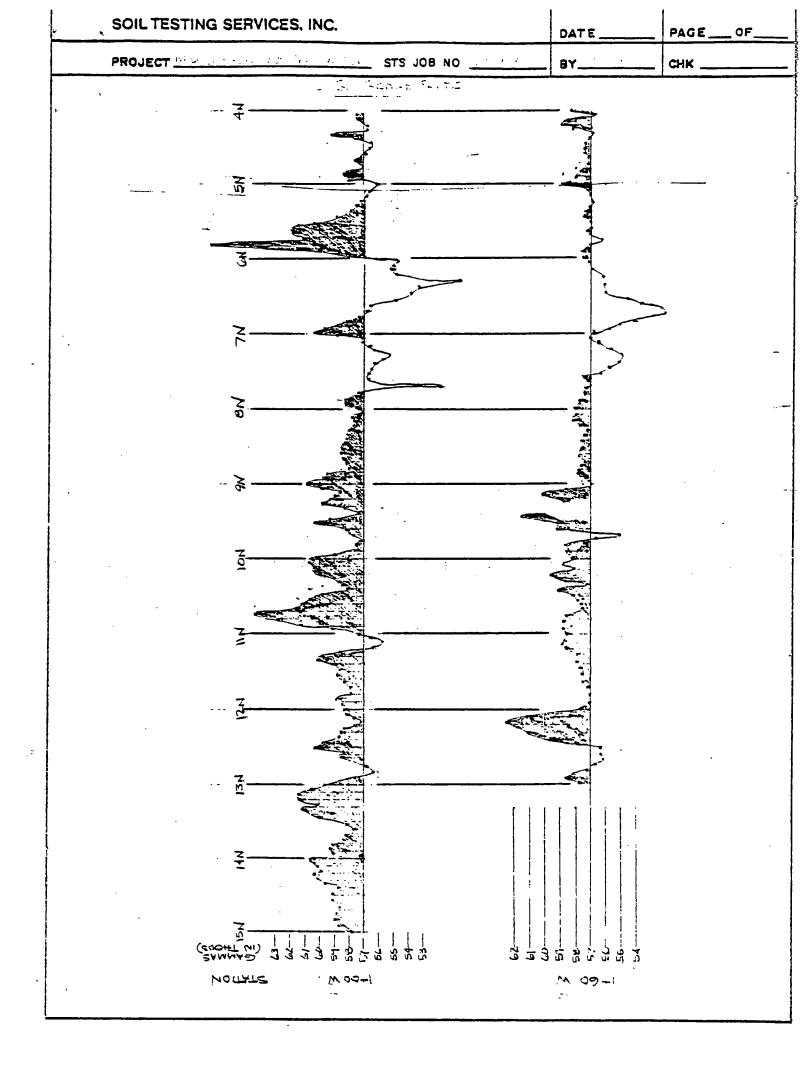
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	SAMPLE	SAMPLE	SAMPLE DISTANCE	Ä	SURFACE	ELEVATIO	N .		UNIT DRY WT		PENE	TRATIO	•	SLOWS/F	
			Ť		<u> </u>	eous fi	11 - wood,	concrete.		-	<u> </u>	io :	1	10 5	Î
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	-1 314	ATIFIC	Afti	o# L	INES REPRESENT		MATE SOUNDRY LI							S. INC	
WL_			_		WS OR WD	BORING	STARTED6/2	29/81]			GSTEN			
WL		ВС	R.		ACR	BORING	COMPLETED	6/29/87	אכ	RTHB	ROOK	11	LINO	S 6005	2
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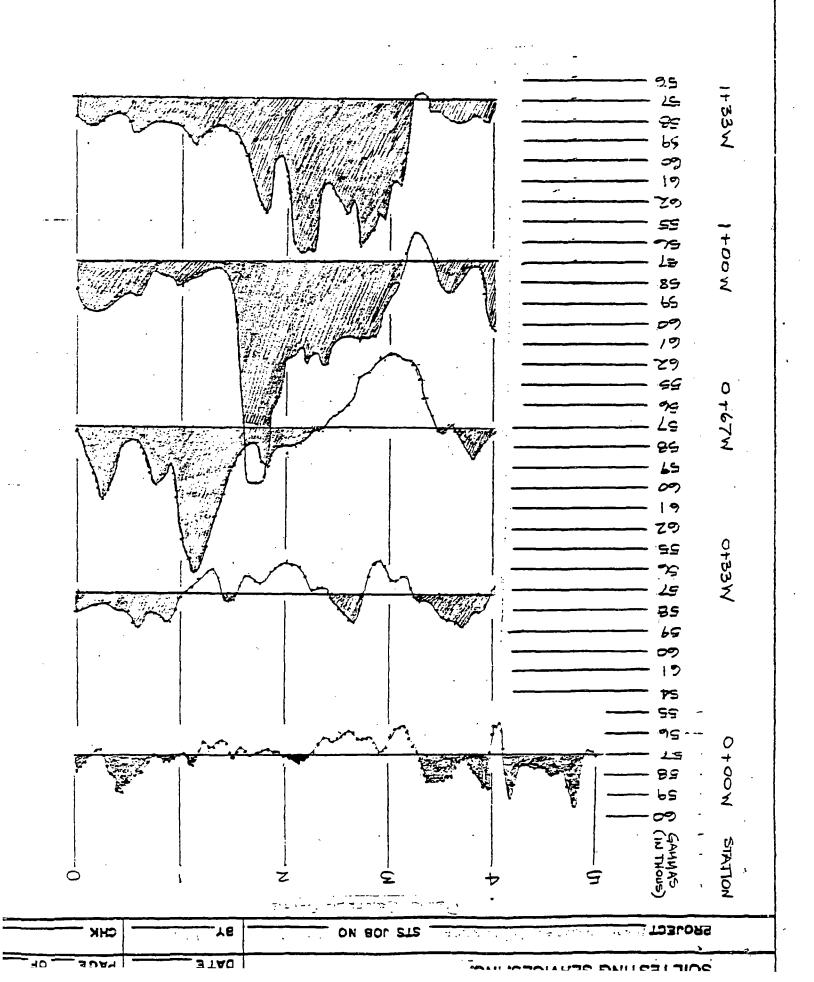
APPENDIX D

Summary of Geophysical Data

RESISTIVITY DATA

Site	Station	Direction	Approximate Depth	Internai Resistivity (ohm-ft)
Penn Central	1	N - S	2 4 6 8	414 104 67 22
	2	N - S	5 10 15 20 25 30	189 144 130 49 15 5
	2	E - W	5 10 15 20 25	226 135 30 9 21
US Scrap	1	E - W	5 10 15	188 440 140
	2	E W	5 15 25	292 311 120
	3	N - S	5 15	30 62





APPENDIX E

Summary of Permeability Test Results

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

Van Car Determining man at Maritanian Daint
Key for Determining Type of Monitoring Point
(5) Surface Water (C) Ground Water (L) Leachate (X) Special
(1) Upstream (1) Monitor Well (1) Flow or (1) Soil
seep (2) Mid-site (2) Private well (2) Pond (2) Waste
(3) Downstream (3) Spring (3) Collection (3) Other
(4) Run-off (4) Lysimeter System
(5) Impounded (5) Public W S
· ·
Name (Private Well, Stream, Spring, Impounded Water only)
TO BE A WEST OF THE THEORY OF THE TOTAL OF THE THEORY OF THE THE THE THE THE THE THEORY OF THE THEORY OF THE THE THE THE THE THE THE THE THE THE
$\frac{1}{(1)} \stackrel{P}{=} \stackrel{C}{=} \stackrel{S}{=} \stackrel{M}{=} \stackrel{O}{=} \frac{1}{(8)} \qquad \text{SITE INVENTORY} \stackrel{O}{=} \stackrel{3}{=} \stackrel{1}{=} \stackrel{1}{=} \stackrel{O}$
MONITOR POINT (17) DATE NUMBER (17) (20) COLLECTED (21) (25)
MONITOR POINT (17) DATE (20) COLLECTED (21) (25)
COOK CO LPC REGION
$\frac{7}{(27)}$
CHICAGO / U.S. SC(Q) (Responsible Party)
(Responsible Party)
Legal (1); Illegal (2); Indicate One: (20) Board Order (X) (29)
(20)
Time Collected Unable to collect sample (X)
(30)
Stick-up ft. Depth to water ft. $(\overline{31})$ (from T.O.C.) $(\overline{34})$ $(\overline{36})$
Sample temp. O Background (X) $(\overline{37})$ $(\overline{39})$
(37) (39) (40)
Ground water sampled by (Indicate one): (1) Bailing;
(2) Pumping; (3) Other (Specify)(41)
Sample Appearance: Nak blill - Wart
Franslucent liquid
Collector comments: liquid, Grah Sangle From
lagoon-Chainage Swale System
1/7/20 1 TIE 30 / NE 7/
Collected by Div. or Company
Transported by Div. or Company
LAB USE ONLY 0 004 25 LPCSMO20
וויסט מיסה סיים איל איל איל אין איז איז איז איז איז איז איז איז איז איז
LAB USE ONLY 002135 LPCSM020 Lab Comments:
Lab Comments:
Date Rec'd 11.3.80 Tash Point = Sample
1 Lab no.
Date Rec'd 11.3.30 (17) Sample Rec' 101-11-12-12-13-13-13-13-13-13-13-13-13-13-13-13-13-
Date Rec'd 11-3.85 (17) Sample temp. acceptable YES NO Sample properly preserved YES NO a reading.
Date Rec'd 11.3.35 (17) Sample Temp. acceptable YES NO Sample properly preserved YES NO Date completed DEC 16 1900 (47)
Date Rec'd 11-3.85 (17) Sample temp. acceptable YES NO Sample properly preserved YES NO a reading.
Date Rec'd 11.3.35 (17) Soint Sample Rec' Advance 2.45 a.m. too watery to get Sample temp. acceptable YES NO Sample properly preserved YES NO Date completed DEC. 16.1980 (47) (56)
Date Rec'd 1.3.83 (17) Sample temp. acceptable YES NO Sample properly preserved YES NO Date completed DEC 16.1980 (47) (56)
Date Rec'd 1.3.30 (17) Rec' July 2. M. (17) Sample temp. acceptable YES NO Sample properly preserved YES NO Date completed DEC 16. 1980 Cupervisor dignature (57) Sample temp. acceptable YES NO Control (17) Cupervisor dignature (17)
Date Rec'd 1.3.30 (17) Rec' July 2. M. (17) Sample temp. acceptable YES NO Sample properly preserved YES NO Date completed DEC 16. 1980 Cupervisor dignature (57) Sample temp. acceptable YES NO Control (17) Cupervisor dignature (17)
Date Rec'd 1.3.30 (17) Point Sample Rec'd 2.46.30 (17) (17) (16) (17) (16) (17) (17) (18) (18) (18) (18) (18) (18) (18) (18

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27	X	Chromium Cr (tot)	<u>o ·o 7</u>
33	X	Chromium Cr ⁺⁶	NO BOHYIE
39	X	Copper Cu	<u>o·/ o</u>
.5	K	Cyanide CN	& o 2 X,
52		Fecal Coli	
6		Fluoride F	
1		Hardness CaCO3	
5	X	Iron Fe	La.7
70	区	Lead Pb	Q·15

LPCSM050

7	X	Magnesium Mg	301.X
2	X	Manganese Mn	0.76
8	K	Mercury Hg	<u> </u>
6	X	Nickel Ni	ø&
1		Nitrate-nitrite N	
6		Oil and Grease	
0	Z	pH (Units)	<u>8./</u> 22
3	X	Phenolics	2.g幺火
0	X	Phosphorus ?	0.69
5	X	Potassium K	50.6

LPCSM:060			
	R.O.E. (190°C)		
X	Selenium Se	a.o.o.a./	
X	Silver Ag	<u></u>	
	Sodium Na		
	SC (uminos/em)		
	Sulfate 304		
X	Fine Un	0.4	
X	Mighter	29·x=xk	
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Participates on the tensering that princes on the contract of

^{*}Analyzes are to be performed on <u>unfiltered</u> samples. (Values exceeding no. of places shown are reported in the lab dominants section; tests requested but not run should also be explained in the lab dominants section.

·				En Co. S	OULV
Time Collected:	1:300m		Lab #	:)U	18253
Date Collected: 1		SPECIAL ANALYS	SIS FORM Date Rece	eived	6 1.980
Cantar		NVIRONMENTAL F	ROTECTION AGENC	<u> </u>	
CU IOI	DIVISION O		OLLUTION CONTRO		T.D.
COOK	R	•	M.S. Scra		
SOURCE OF SAMPLE:					
liquid &	rem lag	joon - d	rainage	way &	Justem
PHYSICAL OBSERVATION	ONS BEWARKS.	Jua Na	2 × 40 1	11.00.4	
liquid	no, illimaturo.	Dul-Dla	ir vian	AMUNI	
		· 8			
TESTS REQUESTED:	Solvents	- toule	ne, ben	zene, x	ylana
COLLECTED BY:	· · · · · · · · · · · · · · · · · · ·	TRAN	ISPORTED BY:		·
		LABORATOR			
RECEIVED BY: CO	~C	DATE COMPLETED:	2-18-80	DATE	ED: 2-19-8
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Villana	_ /3	uelo (PP	·6)	· · · · · · · · · · · · · · · · · · ·	
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Nuphthale	- 13	" ua 10	· · · · · · · · · · · · · · · · · · ·		
- Nupril nate		5/		,	
D.T.A.	-T. (T.)				
Toward Comments	<u> </u>	7.5.0	EIVED		
		FFB	23 1981	00189	53
STATE	n - DIP.G. GEV		- DIPC	-	
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(NOT FOR DATA PROCESSING)

SPECIAL ANALYSIS FORM

				DATE RECEIVED
TO CATTHOLS THAT	ROMHESTAL PROTECTION	AGENCYDIVISI	OK DLT	00.
Time Collected (, _	507 IN.	Sub-Ba	sin	j
Sate Collected_ \ \ -	3 - 80	Collec	tor	NOV 6 1980
Pacility Name: PHICAGO/U.S.	Facility Nu	mbar.	File Town	
Stream Namp(s)	200ap 0310	00000	Stream Code	\$316009B
Source of Sample: (Exa	ct Location) O	04 CO	CHICAGO	
		asle		
<u> </u>		10C) 1-1		· · · · · · · · · · · · · · · · · · ·
· · · · · · · · · · · · · · · · · · ·		*		
Chysical Observations,	1 "	65 -		
Alguest a	my yests	Dossib	6 to C	on from this
recol anc				<u> </u>
Flow	Field Dissolved Oxyg	(en	Field pH	Field Tomp.
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	= 33,000 x = 28,000 ,		RECE	
Alimbertich	ydrocarbons =	18 000	40 /0	the tank the
- Co-Benz	enes = 36	1000 mg/a		
C4-13842	enes = 31,	000. ug/g	MIC. E.P.A STATE OF	-01.Pg
C5-Benz	enes = 31, enes = 25,	000, ug/	PIAIE OF	ILLINOIS"
- M- Hayl prope	nylbenzeue =	5/00 00/9		
Naphthale	hthelone = 1	ng/g		· · · · · · · · · · · · · · · · · · ·
- 1910 + 1931 1948	9+951+46 = 1	600. ug/	g	
Thank	Compounds W	1/2 /	· (· / · · · + /	110 50000
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REPORTED BY:) Klanden	I, VV ,	D. 15	7-74-81

Chicago, Illinois Analyses are to be performed on unfiltered samples. *Values exceeding no. of places shown are reported in the lab comments section; tests requested but not run should also be explained in the lab comments section.

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IEPA Lab (XY

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	LPC	:SM030
	PARAMETERS +	PPM*
	Alkalinity ^l	
	Ammonia as N	
X	Arsenic As	0.026
X	Barium Ba	X.X
	BOD -5	
Ķ	fict with the same	
X	Cadmium Cd	0.0_/* *
	Calcium Ca	
	COD	
	Chloride Cl	
	LP:	1811040
	Chromium Cr (tot)	
	Chromium Cr+6	

	Chromium Cr (tot)	
	Chromium Cr ⁺⁶	X
X	Copper Cu	0.42
	Cyanide CN	<u> </u>
	Fecal Coli (#/100 mi)	
	Fluoride F	
	Hardness CaCOa	
X	Iron Fe	84.4
X	Lead Pb .	Loa
	1,P°	191040

X Denesius M	LY.2
X Manganese I'n	/_ <i>a3</i>
X Mercury Hg (Ma/g)	(um) 1.70 XX
V Nickel Ni	
Nitrate-nitrite N	
Oil and Grease	
pH (Units)	
Rhenolius	
Phoophorus P	
Potassium K	

4.1	20,000
4.0.E. (180°C)	
Solenium Se	
Silver Ag	0
Sodium Na	
SC (umhos/em)	
Sulfate SO ₄	
X Aire Br	2.0

LPC-8 REV. 7/77

SPORAD LANGUAGE COMMUNICATION CONTRACTOR COMMUNICATION COM

COMPUTER 02133 NOV33 ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND/NOISE POLLUTION CONTROL LPCSM030 CHEMICAL ANALYSIS FORM PARAMETERS * Key for Determining Type of Monitoring Point PPMX (G) Ground Water (L) Leachate (S) Surface Water (X) Special <u>Alkalinitv^l</u> 27 (1) Monitor Well (1) Flow or (1) Soil (1) Upstream Ammonia as N 31 (2) Pond (2) Waste (2) Mid-site (2) Private well 0.00 37 Arsenic As (3) Downstream (3) Spring (3) Collection (3) Other (4) Run-off (4) Lysimeter System 0.03 Barium Ba 44 (5) Public W S (5) Impounded 49 BOD -5 53 Boron B Name (Private Well, Stream, Spring, Impounded Water only) 58 Cadmium Cd SITE INVENTORY NUMBER Calcium Ca MONITOR POINT DATE con 69 COLLECTED Chloride Cl Co. - LPC LPCSW040 Chromium Cr (tot) Chromium Cr+6 33 Legal (1); Illegal (2); Indicate One: Board Order (X) Copper Cu 39 $(\overline{28})$ 45 Cyanide CN Time Collected Unable to collect sample (X) (30)Fegal Coli 52 Stick-up Depth to water $(from T.O.C.) (\overline{34}) (\overline{36})$ 56 Fluoride F (31) (33)Sample temp. Background (X). . . Hardness CaCO2 61 65 Iron Fe Ground water sampled by (Indicate one): (1) Bailing; .0 Lead Pb (2) Pumping; (3) Other (Specify) (41)LPCSM050 Sample Appearance: 54400 Magnesium Mg JUAN 32 Manganese Mn Collector comments: 38 Mercury Hg 46 Nickel Ni 4.17.15 51 Nitrate-nitrite N Div. or Company Collected by _E V4 V/1S Oil and Grease 56 Transported by Div. or Company 60 pH (Units) LAB USE ONLY LPCSM020 C002133 Lab Comments: 63 Phenolics 70 Phosphorus P (27)Potassium K LPCSM060 YES NO Sample temp. acceptable R.O.E. (150°C) Sample properly preserved YES NO Date completed DEC. 16. 1980 31 Selenium Se

Environmental Protection Apple

Address Division of Laboratory . . . of Lab 2121 W. Taylor Street

Chicago, Elinois 60612

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Silver Ag

Sodium Na

Sulfate SO,

Time Sin

SC (umhos/cm) ·

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.58 Private Lab (X)

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^{*}Analyses are to be performed on <u>unfiltered samples</u>. "It was exceeding no. of places shown are reported in the web extract dection tests requested but not run should also be explained in each lab comments section.

Key for Determining Type of Monitoring I	Point	
(S) Surface Water (G) Ground Water (L) Leachar	te (X) Special	
(1) Uputream (1) Monitor Well (1) Flow or	r (1) Soil	
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To the state of th	ter only)	
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MONITOR POINT O O O O DATE NUMBER O O O O O O O O O O		
COOK CO LPC REGION	(27)	
NHIDOLD / 115	. 500 (1)	
(Location) (Responsible	ble Party)	
Legal (1); Illegal (2); Indicate One:	Board Order (X)	
Time Collected	(29)	
Time Collected Onable to collect	$(\overline{30})$	
Stick-up ft. Depth to water $(\overline{31})$ (from T.O.C.)	$\frac{1}{34}$) $\frac{1}{36}$	
Sample temp. Sample $(\overline{37})$ ($\overline{39}$) Background (X).	The state of the s	
	(40)	
Ground water sampled by (Indicate one): (1) Bail: (2) Pumping; (3) Other (Specify)	ing; (41)	
Sample Appearance: light gold translucent		
Sample Appearance. 11911	bott 3 moet 11	
110010		
Collector comments: Liquid From 5ilp that had		
teen pumped into tanker		
Collected by Div. or	Company	
1 - 1 - 10	,company	
Transported by Div. or	Company	
	PCSMO20 Comments:	
Lab No. COUNTY	Daint - Sample	
Date Rec'd 11. 3. 8 (17)	$\frac{\sqrt{39}}{39}$	
Rock to Time 3:45 a.B. Too W	atory to get	
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*Analyses are to be performed on unfiltered samples. *Values exceeding no. of places shown are reported in the lab comments section; tests requested but not run should also be explained in the lab currents rection.

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,		Alkalinity ^l			
L		Ammonia as N			
7	X	Arsenic As	a. <u>a.</u> X		
,	X	Barium Ba	6.0		
9		BOD -5			
3	$\overline{\times}$	Boron B	4.4		
3	X	Cadmium Cd	a.1./		
4		Calcium Ca			
9		COD			
3	X	Chloride Cl	650		
	LPCSM040				

	Er Corio40		
X	Chromium Cr (tot)	<u>/ 85.xx</u>	
	1	No Bottle	
X	Copper Cu	3.9 <u>K</u>	
X	Cyanide CN	0.46 A	
	Fecal Coli		
	Fluoride F		
	Hardness CaCO3	<u>*</u>	
X	Iron Fe	1597.X	
X	Lead Pb	0.98	

		LP(SM	050						
	X	M≘gnesium Mg		a	3	9	· je			<u></u>
	X	Manganese Mn			3	6	. 2	_}	(
	X	L'ercury Hg			_	a	· <u>@</u>	9	S	6
	X	Nickel Ni				3	5		<u> </u>	<u> </u>
		Nitrate-nitrite N					•	X.		
		Oil and Grease	_					X.		*
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	X	Phenolics		2	4	5	<u>ه</u> .			ž.
		Phosphorus P	353				·			
	区	Potassium K		2	2	<u> </u>	છે) <u>@</u>	200	
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LP(DSM060
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Silver Ag	0.00
Sodium Na	
SC (umhos/cm)	
Sulfate SO ₄	
ine Zn	_152.X
sulfides	Z & & & . D
	R.O.E. (180°C) Selenium Se Silver Ag Sodium Na SC (umhos/cm) Sulfate SO4

Pikalinity is to be determined as ppm of CaCO3 at pH 4.5.

CPC-8 PFV, 7777 comments section. tests requested but not run should also be explained in the lab exceeding no. of places shown are reported in the lab comments section; . Yusıkses s 2 OF Lab Address Ù Явше E gins Date forwa Date compl Sample pro Sample tem Rec 1 39. Date Recid _ .oN dsJ LAB USE ON Collector c Sample Appe gaiqmu9 (S) Ground wate Sample temp Stick-up (31 Time Collec regal (1); NUMBER MONITOR POL (<u>T)</u> I $\frac{1}{5}$ $\frac{1}{5}$ 9m.F.N viry)

> DIAIZION OF LAND/NOISE POLLUTION CONTROL ILLIVOIS ENVIRONMENTAL PROTECTION ACENCY

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and married X	::: 18	(45) (77) patalence batalence completed
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Od'I.		Sample temp, acceptable res NO (37) C 0,000 (46)
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əñ norl	6 9	Sample temp. 0 137) Background (X) (40)
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Cyanide CN	57	Time Collected (30) .
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(tot) TO mulmordo D	ፈፘ	(Responsible Party)
<u> </u>		(75)
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CO2	69	NOWHER (17) (20) COLLECTED (21) (26)
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g norde 🕅	٤۶	Name (Private Weil, Stream, Spring, Impounded Water only)
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rā muitasī 🔀	77	(Y) Hinn-off (L) Lysimeter System
SA Linezia	25	(2) Mid-site (2) Private well (2) Pond (2)
William A	37	(1) Upstream (1) Monitor Well (1) Flow or (1) Soil
285733,4545	20	(S) Surface Water (G) Ground Water (L) Leachate (X) Special
		CHEMICAL ANALYSIS FORM
プ 1 1 1 2 2 b 2 (1	DIAIZION OF LAMB/NOISE POLLUON CONTROL

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Time Collected:	· · · · · · · · · · · · · · · · · · ·	0022981
Date Collected: 10:27.8/	SPECIAL ANALYSIS FORM Date Re	eceived
ILLINOIS DIVISION	S ENVIRONMENTAL PROTECTION AGE OF LAND/NOISE POLLUTION CONT	FROL
COUNTY:	FILE HEADING: CHICAGO/U.S. SCRA	P 03160032
SOURCE OF SAMPLE: (Exact Location	on) (F/O)	
		1,19
PHYSICAL OBSERVATIONS, REMARKS:	Beeld	JANUZ 1982
		ECONATE OF ILLINOIS
45	was all same	
TESTS REQUESTED:		5 6 6 5
COLLECTED BY: CHARGES GESTER	TRANSPORTED BY:	
	LABORATORY	DATE
RECEIVED BY: 600	COMPLETED: 12/30/8/	FORWARDED: 12/30/8/
- (Torchlosochylene)	Trimet	hy lhaphthalene = 380. ug
Trichloroethene =	680 ugle Biphen	41-2-01 = 180. mg/e
Tolyene = 12,000		1b:pheny/= 230.ug/e
4- Methyl-2- Pentano		1: / . /
xylenes = 22,000		tichydrocarbons=10,00
<u>C3-Benzenes = 680</u>	o, ag/e Phenol =	= 11,000. ug/e "9
Cy-Benzenes =390	oragle METHYL	phenol = 6300, hg/2
Cy-Benzenes = 680 Cy-Benzenes = 390 Trimethy/cyclohexano Naphthalene = 1900,	11e = 7200, ug/e	
,	<i>V</i> .	= 29. ug/l
Methylnaphthalene = 3 Dimethylnaphthalene = 1 LPC-8A 4/77	570. ug/e	OHurley
LPC-8A 4/77	(NOT FOR WATA PROCESSING)	D022981
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Key for Determining Type of Monitoring Point CHEMICAL ANALYSIS FORM DIAISION OF LAND/NOISE POLLUTION CONTROL

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(95)(½*)	Date completed
(97)(15)	Sample temp, acceptable YES NO Sample temp.
(36)	18. F.C. ol b'Dest ed B. Dest ed b'Dest
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Div. or Company	Vd beimogeneni
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	Collector comments:
	Sample Appearance:
₹ .	Ground water sampled by (Indicate one (2) Pumping; (3) Other (Specify)
(X) puno.(X)	Cample temp. $\frac{0}{(37)}$ (39)
س ۲.۵.۵.۱ (عَلَيْ) (عَلَيْ) (عَلَيْ)	(<u>31) (33)</u>
(96) The to water (36) (36) (36)	Stick-up, (31) , (31) , (31)
of to collect sample (X)	Time Collected innat
111061	Legal (1); Illegal (2); Indicate One:
(ResponsibledParty)	(location)
oc RECTOW (27)	(00 - m
(92) (12) (12)	MONITOR POINT (20) COLLECTED DATE
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• •	Name (Private Well, Stroam, Spring, I
	S W bildug (2) behinogal (3)
(3) Collection (3) Other System	(3) Downstream (3) Spring (4) Lystmeter
(2) Pond (2)	(2) Mid-site well (2) Private well
(1) Tiow or (1) Soil (1)	(1) Upstream (1) Mcnitor Well
(L) Leachate (X) Special	TaleW bnuord (A) TaleW abeltu2 (A)
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tests requested but not run should also be explained in the list

*Analyses are to be performed on unfiltered samples. *Values

exceeding no. of places shown are reported in the lab comment. section;

comments section,

Time Collected:			Lab #	DC22982
Date Collected:	10.27.81	SPECIAL ANALYS		eived Colon LCGI
^		S ENVIRONMENTAL F		
COLINITY	DIVISION	N OF LAND/NOISE F FILE HEADING:	COLLUTION CONTR	OL FILE NUMBER:
COOK			U.S. SCRAF	
SOURCE OF SAMPLE:	(Exact Locati	ion)	2	
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		,		
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Trimethy	" ,	•	_	*·
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•	22. ng/e	•		•
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LPC-8A 4/77

(NOT FOR DATA PROCESSING)

H.W.

CHEMICAL ANALY	POLLUTION CONTROL SIS FORM
Key for Determining Type of	Monitoring Point
(S) Surface Water (G) Ground Water	(L) Leachate (X) Special
(1) Upstream (1) Monitor Well	(1) Flow or (1) Soil
•	seep (2)
(2) Mid-site (2) Private well (3) Downstream (3) Spring	(2) Pond (2) Waste (3) Collection (3) Other
(4) Run-off (4) Lysimeter	System
(5) Impounded (5) Public W S	
Name (Private Weil, Stream, Spring,	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	ENTORY (3) 16 00 3 (16)
MONITOR POINT (17) DATE NUMBER (17) (20) COLLECTE	D 22567
a street	
Co L	PC REGION (27)
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(Location)	(Responsible Party)
Legal (1); Illegal (2); Indicate One:	Board Order (X)
Time Collected P. M. Una	(29)
Stick-up (31) (33) (33)	on T.O.C.) (34) (36)
Sample temp. O Bac $(\overline{37})$ $(\overline{39})$	(40)
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Ground water sampled by (Indicate one (2) Pumping; (3) Other (Specify) Sample Appearance:	e): (1) Bailing; (41)
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^{*}Analyses are to be performed on unfiltered samples. *Values exceeding no. of places shown are reported in the lab comment section; tests requested but not run should also be explained in the lab comments section.

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1	Alkalinity ²	30 VA
7	Ammonia as N	d8 ox
X.	Arsenio As	0.102
1	Farium Sa	Milmen
X	BOD -2	验题题
K	Baran B	
7	Cadmium Ci	1.3+
V	Chleium Ca	1302-3
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لثثبا	Ohloride Cl	The state of the s
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	Chromium Cr (tot)	0.30
1	Cirrosium Cr ^{+p}	Interference X X
X	Copper Cu	o.7_9
	Cyanide CH	<u> </u>
7	Fecal-Coli	
7	Fluoride F	3.1
1.0		5900
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Į.	Iron Fe	
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<u>, </u>).[5	CC1590
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عرب	Nitrate-nitrite.N	250
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字	Codium Ha	466-6
	SC (unhop/em)	8494 * * * *
19	the Country Curt :	
15	Sulfata co.	1040 200
K	Sulfate SO ₄	1040-1
K K	Sulfate SO _A Sinc Sn	1040-200

CodO3 at pH 4.5.

Time Collected:	• 00000000	Lab #	DOT 20 1001
Date Collected:	SPECIAL ANA	LLYSIS FORM Date Recei	CCT 29 98 ived
		AL PROTECTION AGENCY	
COUNTY: DIVISIO	N OF LAND/NOIS	SE POLLUTION CONTRO	FILE NUMBER:
COOK		O/U.S. SCRAP	03160032
SOURCE OF SAMPLE: (Exact Locat			
		Na world	
	 		
			
PHYSICAL OBSERVATIONS, REMARKS:	La Contra	3000	Des or
	Friend State		
	· · · · · · · · · · · · · · · · · · ·		7 :
	• .	•	
	elamed)	A STATE OF THE PARTY OF THE PAR	of the second second
TESTS REQUESTED:		de de Ca	<i>f</i> 25
			
COLLECTED BY:	Control of the Contro	TRANSPORTED BY:	a same
OODDINGTOD DI. ANNERSON-WESTER	LABOR		The state of the s
Ca	DATE		DATE
RECEIVED BY:	COMPLETED:	12/30/81	FORWARDED: 12/30/8
Trichloro ethene = 4	1300 ug/e	Trimethylo	cyclohe xanone=57
Tolyene = 46,000.	ugle	Isophoron	e = 18,000. mg/p
Ethylbenzene = 30,			hydrocarbons= 54,
Xylenes = 120,000		Phenol = 5	,
Cz-Benzenes= 12,000	ν,		01 = 7100, mayle
C4-Benzenes= 51,00	, 0	, ,	-Nitro phenol=370
C5-Benzenes = 11,00	•	•	01 = 3200.ug/e
·	O.	·	<i>u</i> .
Naphthalene = 6'100.	U		200. ug/e
Dimethylnaphthalen	e = 570	ug/e	· · · · · · · · · · · · · · · · · · ·
3,3-Dihydro-4-Methy	Lindone =	= 3200 mg/l	
TDC 04 //77	(MOT TOD DATA	DDOGECCTNC)	

H.W.

. Key for Determining Type of Monitoring Point	_
key for beterranting type of monttoffing forms	
(S) Surface Water (G) Ground Water (L) Leachate (X) Special	27
(1) Upstream (1) Monitor Well (1) Flow or (1) Soil	1
seep (2) Mid-site (2) Private well (2) Pond (2) Waste	31
(3) Downstream (3) Spring (3) Collection (3) Other	37
(4) Run-off (4) Lysimeter System	44
(5) Impounded (5) Public W S	40
	1
Name (Private Weil, Stream, Spring, Impounded Water only)	53
LPCSMO10 SITE INVENTORY PROBLEM (16)	53 64
MONITOR POINT (20) COLLECTED (21) (26)	
NUMBER (17) (20) COLLECTED (21) (26)	60
A STATE OF THE PARTY OF THE PAR	73
Co LPC REGION (27)	
	}
Ca. 125. Serape	27
(Location) (Responsible Marty)	33
Legal (1); Illegal (2); Indicate One: Board Order (X) (29)	39
Time Collected $p.m.$ Unable to collect sample (\ddot{x}) (30)	45 52
Stick-up so oft. Depth to water so oft.	}
(31) (33) $(100 T.O.C.)$ (34) (36)	56
Sample temp. O Background (X) (40)	61
(37) (39) (40)	65
Ground water sampled by (Indicate one): (1) Bailing;	
(2) Pumping; (3) Other (Specify) (41)	
(2) 1 miphing, (3) 0 mor (0) 0 mor (1)	70
	10
Sample Appearance: 27 Green Turns.	27
	27
Sample Appearance: 27 Govern Tools.	
Sample Appearance: 27. Green Territorial	27
Sample Appearance: 27 Govern Tools.	27 32 38
Sample Appearance: I. Coeen Turs.	27 32 38 46
Sample Appearance: 27 Govern Tools.	27 32 38
Collected by Div. or Company	27 32 38 46
Sample Appearance: 27. Govern Turd of Collector comments: 1000000000000000000000000000000000000	27 32 38 46 51
Collected by Div. or Company Transported by Div. or Company LAB USE ONLY LPCSMO20	27 32 38 46 51 56
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Collector comments: Collector comments: Collector comments: Div. or Company Div. or Company LAB USE ONLY Lab No. CO02485 Lab Comments:	27 32 38 46 51 56
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Collector comments: Collector comments: Collected by Div. or Company Div. or Company Div. or Company LAB USE ONLY Lab No. COO2485 Date Rec'd OF T. Wime Line and Comments: Sample temp. acceptable (TES) NO Sample properly preserved (TES) NO Date completed Collector comments: Div. or Company LPCSMO20 Lab Comments: COD 2000 (46) RoE 15, 50 0 Date completed	27 32 38 46 51 56 60 63 70 70 35 31
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Collector comments: Collector comments: Collector comments: Collector comments: Collector comments: Collector comments: Div. or Company Div. or Company LPCSM020 Lab No. Collector by LPCSM020 Lab Comments: LPCSM020 Lab Comments: LPCSM020 Lab Comments	277 322 388 466 511 566 607 707 311 324 445 51

of Lab 2121 W. Taylor Street

Chicago, Illinois 60612

Analyses are to be performed on unfiltered samples. Values exceeding no. of places shown are reported in the lab comment section; tests requested but not run should also be explained in the lab comments section.

0;	2485 OCT2	a.030
	FARAMETERS	PP1/14
27	X Alkalinity2	<u> </u>
31	Ammonia as N	94.0米量
37 ,	Arsenia As	0.13
44	Mearing 50	Interference
49	200 -5	
53	Boron F	5.488
58	Cadmium Ci	0.0.0
64	Colsium Ca	1319 ***
60	₹ con	<u>**********************************</u>
73	Chloride Cl	940.
	LP.	781940 -
27	Chromium Cr (tot)	0.3.3
33	Chromium Cr ^{+o}	Interformer
39	Copper Ou	0.36
45	Cyanide .Cli	B.17+
52	Fecal Coll	
56	Fluoride F	0.9
61	Xilardness CaCos	7600
65	Alron Fe	563.4
70	Lead Pi	0.42
"	7.	1 <u> </u>
27	Advenesion 45	934.4
32	Manganese I'n	15.7
38	L'ercury Ha	W-727-Y
45	Clickel Hi	3 3
51 51	Z Nitrate-nitrite N	0./**
56		
1 60 7 60	Oil and Grease A phi (Units)	6.1883
63	The state of the s	62.0%
70	Phenolics	
73	Rectassion K	178-3
1	7	
	13	CSLOCO ### ### ### ### ### ### ###########
37	R. T. E. (180°C)	0/34
31	Celenium Ce	O.13 * *
158	Silver Ag	0.00* \$ _702 X **
44	Codium Na (<u></u>
53	SC (umhos/cm) Sulfate SO2	1 7 44 4 1 20 10 10
ł	199	11.1222
55	Z Circ En	

 $^{1}\mathrm{Aikalinity}$ is to be determined as ppm of CarO $_{2}$ at pH 4.5.

		Lab #	D022984
Time Collected: 230 //	. SPECIAL ANALYSIS	FORM Date Receive	ed CCT 29 1991
			\$14417674442006220644111444411441414141414141414141414141
DIVI	NOIS ENVIRONMENTAL PRO SION OF LAND/NOISE POL		
COUNTY:	FILE HEADING:	5 56000	FILE NUMBER:
COOK	CHICAGO/U	S. SCRAP	03160032
SOURCE OF SAMPLE: (Exact Lo	cation)	gd ⁶	
	magneti and the second	· · · · · · · · · · · · · · · · · · ·	
PHYSICAL OBSERVATIONS, REMAR	KS: Coope	20-72	
	docor Side	e ode	parts,
	p. Commission of the commissio	. `	₹
	· · · · · · · · · · · · · · · · · · ·		
TESTS REQUESTED:		of comments	B 50
			•
	·	· · · · · · · · · · · · · · · · · · ·	<u>, </u>
COLLECTED BY: CHIEFEST CEC	TRANSF	ORTED BY	A STATE OF THE PARTY OF THE PAR
	LABORATORY		
DECETION DV. VIII	DATE COMPLETED.	2/30/81	DATE FORWARDED: /2/36/
RECEIVED BY:	1	2/30/01	FORWARDED: 72/30/
Toluene = 32,00	30 160/2		
1014 EVIE - 32,00	Jo , pec / l	· · ·	044
•	<i>,</i>		
Xylenes = 32,00	00, ug/e	ule	
Xylenes = 22,00 Trimethylogoloh	00, ug/e exanol = 6600, u	o.	
Xylenes = 22,00 Trimethyleycloh Trimethyleyclohe	00, ug/e exanol=6600, u xanone=21,000	o.	
Xylenes = 22,00 Trimethyleyclohe Trimethyleyclohe Nophtholene = 43	oo, ug/e exampl=6600. u xanone=21,000 To ug/e	o.	
Xylenes = 22,00 Trimethyleyclohe Trimethyleyclohe Nophtholene = 43	oo, ug/e exampl=6600. u xanone=21,000 To ug/e	o.	
Xylenes = 22,00 Trimethylcyclohe Trimethylcyclohe Nophtholene = 43 Phenol = 4300.	00, ug/e exampl = 6600, u xanone = 21,000 To ug/e ug/e	o.	
Xylenes = 22,00 Trimethyleyclohe Trimethyleyclohe Nophtholene = 43 Phenol = 4300. M Methylphenol = 11,	00, ug/e exampl=6600, u xanone=21,000 To ug/e ug/e 000, ug/e	o.	
Xylenes = 22,00 Trimethylcycloh Trimethylcyclohe Nophtholene = 43 Phenol = 4300. M Methylphenol = 11,00 Ethylphenol = 380	00, ug/e exampl = 6600, u xanone = 21,000 To ug/e ug/e 000, ug/e	o.	
Xylenes = 22,00 Trimethyleyclohe Trimethyleyclohe Nophtholene = 43 Phenol = 4300. M Methylphenol = 11,	00, ug/e exampl = 6600, u xanone = 21,000 To ug/e ug/e 000, ug/e	o.	

LPC-8A 4/77

(NOT FOR DATA PROCESSING)

DCZZ984

CHEMICAL ANALY	YSIS FORM
Key for Determining Type of	Monitoring Point
(S) Surface Water (G) Ground Water	(L) Leachate (X) Special
(1) Uputream (1) Monitor Well	(1) Flow or (1) Soil
	seep
(2) Mid-site (2) Private well	
(3) Downstream (3) Spring (4) Run-off (4) Lysimeter	(3) Collection (3) Other System
(4) Run-off (4) Lysimeter (5) Impounded (5) Public W S	SJ S CEIII
(5) Tabling (5) Tablic # 5	11
•	
Name (Private Well, Stream, Spring,	Impounded Water only)
	VEHTORY 03/60032
$\frac{L P C S M O 1 O}{1)} \qquad \begin{array}{c} \text{SITE IN} \\ \text{NU.DER} \end{array}$	(9) (16)
MONITOR POINT 505 DATE	
NUMBER (17) (20) COLLECTI	ED (21) (26)
	LPC REGION STEPPER
Comment of the contract of the	C5.5210,00
(Location)	(Responsible Party)
•	=
Legal (1); Illegal (2); Indicate One	:Board Order (X) (20)
Time Collected D.m. IJn	able to collect sample (X)
p.m.	(<u>30</u>)
Stick-up Co Fr. De	pth to water 322st.
Stick-up (31) (33) (12) (33)	pth to water 22ft.
	ckground (X)
Sample temp. $(\overline{37})$ $(\overline{39})$	(40)
Ground water sampled by (Indicate on (2) Pumping; (3) Other (Specify) Sample Appearance:	e): (1) Bailing; (41)
Sample Appearance.	
Collector comments:	2 Rose Page
Corrector comments.	
Trong or our	
The state of the s	Secretary Control of the Control of
Colsie acted by	Div. or Company
The state of the s	Service Control of th
Transported by .	Div. or Company
	T Parily 1999
IAB USE ONLY	LPCSM020 Lab Comments:
Lab No. <u>C002486</u>	.
1	Ha < 0.00005
Date Rec'd 15-27-31	(27) (36)
Réctable Me Time 4 3 0 a.m.	. ∀
nec a by	
Sample temp. acceptable (YES NO Sample properly preserved (YES NO	$(\overline{37})$ $(\overline{46})$
1 Freezen Freezen	
Date completed Date forwarded 2-/4-9	$(\overline{47})^{-} - (\overline{56})$
00 9	
- Carana Brazar	(57) (66)
Suggration Signature of	1
Name Environmental Protection	(67) (76)
Name Environmental riotection - Address Division of Laboratory Sur	· (10)
of Int of A Taylor Street	Private Lab (X)
The state of Harin 60612	IEPA Lab (X)(X)
	1 +012 520 / 0/1/0/

*Analyses are to be performed on unfiltered samples. *Values exceeding no. of places shown are reported in the lab comment section; tests requested but not run should also be explained in the lab comments section.

) [24	86 OCT27		20						
	_	- LPC	5140	30		DDU			_	
	100	ARAGETERS		6	4	PPM O	. 12			
7 . 11	VI	Aixalinity*		<u> </u>	<u>+</u>	<u> </u>	.3	illi. Gydr	700 700 700	
'1 17		Ammonia as N Arseni: As	==-	==-		-	<u></u>	9	<u>منتا</u>	
	1	Sarium Sa		7	بخن مار	سنتند م	<u>بن.</u> د مه	**	急	
.4 .e	1	BOD -5	CLI	3	ラ	<u> </u>			%	
,,		Baron P	-	=		す	. 9	***	<u> </u>	
58		Cadmium Ci	==-	=	==-	<u></u>	<u></u>	<u> </u>		
	1	Calsium Ça	1	7	8	<u>52.</u>	مهر. مهر	/	133	-
54 50	13.6	con	j	9	7		念然	W.	**	•
7.3			<u></u>	<u> </u>	<u>≅</u> ર	<u>2</u>	131	<u>数</u>	**	
ر.	لبشا	Chloride Cl		~~	پ	4	-:XX	<u> </u>	<u> </u>	<u>:</u>
	1	`	2112) i i ()			P	3		-
27	100	Chromium Cr (tot)	==		==		· <u>l</u>	<u>ප</u> ර	222	-
33	3000	Chromium Cr ⁺⁶		. 1 4444		<u>e</u>	· <u>0</u>			<u>ئ</u> ر ئ
39 ,		Copper Cu	=	==	==	<u>Q</u>	-1	2	<u>#</u>	<u>2</u>
45	X	Cynnide CN	-		=	<u>Q</u>	<u> </u>	<u> </u>	13.5	<u> </u>
52	3>	Fessin Coti	773				<u> </u>	A.	-AH-	Ž.
56	-	Fluoride F		- 27	-	2	0	<u> </u>	<u>X:</u>	X.
51	X	Hardness CaCO3	=			<u></u>	. 3.	300 300	<u>#88</u>	<u>X</u>
55	To the second	Iron ře	=			<u> </u>	<u>· _1</u>	<u>&</u>	<u> </u>	**
70	W.	Lean Pl	<u> </u>	. .		<u>0</u>	<u>ंद</u> ्र	_[鳌	ii.
	rc	1.1%		(۱٬۱۱				785	200	100
27	1	Marnesium Mr		<u>ల</u>	4	4	<u>滚·</u>	<u> </u>	*****	1
32	1 Ver	Manganese Ph	_	=		6	<u>. 2</u>	6	整	2
38	1	Mercury Hm		==	=	Ž.	<u>لا .</u> 		-54	-
45	X	Nickel Hi		=		0	<u>. c</u>		X.	*
51	A	Nitrate-nitrite N				0		X	1,1	ў. -
56		Oil and Greage	_			<u></u> .	<u>. X</u>	<u>X</u> .	<u> </u>	X
60	10	թե (Units)	X	<u>X</u>		7	<i>ل</i> ے ز	• X	<u>X</u>	<u>X</u>
63	K	Phenolics				<u>0</u>	- 00	6	2) <u>2.</u>
70	1	Phosphamis 2		٠.		3	. 2	3	×	3
73	X	Potascium K			1	9	٠.) <u></u>	*	c.
	,	1.00	1.91.4	ንር-ሳ						
27	X	მ.ი.ნ. (სტი°ს)		8	8	D		X	*	X
31	X	Selenium Ce				0	.0	1	玄	1
20	K	Silver Ag				٥	<u>ه</u> .) <u>*</u>	X
			,	-7-	~					

 $^{1}\mathrm{Alkalinity}$ is to be determined as ppm of CoCO_{3} at pH 4.5.

Codium IIn SC'(umhos/em): Culfate SOZ

Time Collected:	Lab # UVARABIS
Date Collected: 12:33.5	SPECIAL ANALYSIS FORM Date Received 2 2 1981
ILLIN	IOIS ENVIRONMENTAL PROTECTION AGENCY
COUNTY:	ION OF LAND/NOISE POLLUTION CONTROL FILE NUMBER:
COOK	CHICAGO U.S. SCRAP 03160032
SOURCE OF SAMPLE: (Exact Loc	eation)
PHYSICAL OBSERVATIONS, REMARK	S: 15759 SOF
en e	
TESTS REQUESTED:	nie Solv. et CES
. *	
	CONTROL CONTRO
COLLECTED BY: CHARCES CREEK	J. J. J. J. J. J. J. J. J. J. J. J. J. J
	LABORATORY
RECEIVED BY: EM	DATE COMPLETED: /2/30/87 FORWARDED: /2/30/8
Toluene = 7700	$\approx 2.4 \times 0.0$
Xylenes = 11,000	o ug/e
Naphtholene= 5	
Aliphotichydrocar	1.2
PCBs = 120. 49/2	V.

LPC-8A 4/77

(NOT FOR DATA PROCESSING)

	ENVIRONMENTAL OF LAND/NOISE CHEMICAL ANALY	POLLUTION CO	
for Deter	mining Type of	Monitoring	Point
ater (G) Ground Water	(L) Leach	ite.

onarion in the second	6 Maritanian Daint
Key for Determining Type o	
S) Surface Water (3) Ground Water 1) Uputream (1) Monitor Weil	(1) Flow or (1) Soil
	seep
2) MId-site (2) Private well 3) Downstream (3) Spring	(2) Pond (2) Waste (3) Collection (3) Other
3) Downstream (3) Spring 4) Run-off (4) Lysimeter	System
5) Impounded (5) Public W S	
Name (Private Well, Stream, Spring,	Impounded Water only)
	VENTORY 03/60032
MO:HITOR POINT (17) (20) DATE (17) (20) COLLECT	
ويتنصد	AP A
	LPC REGION (27)
D.	· •
J 1	(Responsible Party)
(Location)	(Responsible Party)
Legal (1); Illegal (2); Indicate One	Board Crder (X) $(\overline{29})$
The same of the sa	nable to collect sample (\ddot{x}) $(\cdot{30})$
Stick-up $\frac{p}{(31)}$ $\frac{p}{(33)}$ $\frac{p}{(33)}$ $\frac{1}{(33)}$	epth to water
Sample temp. O Barrier O O Barrier O O Barrier O O Barrier O O Barrier O O Barrier O O Barrier O O Barrier	ackground (X)
(37) [39]	12()
Ground water sampled by (Indicate of (2) Pumping; (3) Other (Specify)	(41)
Ground water sampled by (Indicate of	ne): (1) Bailing; (41)
Ground water sampled by (Indicate of (2) Pumping; (3) Other (Specify) Sample Appearance:	ne): (1) Bailing; (41)
Ground water sampled by (Indicate of (2) Pumping; (3) Other (Specify)	ne): (1) Bailing; (41)
Ground water sampled by (Indicate of (2) Pumping; (3) Other (Specify) Sample Appearance:	ne): (1) Bailing; (41)
Ground water sampled by (Indicate of (2) Pumping; (3) Other (Specify) Sample Appearance:	ne): (1) Bailing; (41)
Ground water sampled by (Indicate of (2) Pumping; (3) Other (Specify) Sample Appearance: Collector comments:	ne): (1) Bailing; (41)
Ground water sampled by (Indicate of (2) Pumping; (3) Other (Specify) Sample Appearance:	ne): (1) Bailing; (41)
Ground water sampled by (Indicate of (2) Pumping; (3) Other (Specify) Sample Appearance: Collector comments:	Div. or Company
Ground water sampled by (Indicate of (2) Pumping; (3) Other (Specify) Sample Appearance: Collector comments: Transported by LAB USE ONLY	Div or Company
Ground water sampled by (Indicate of (2) Pumping; (3) Other (Specify) Sample Appearance: Collector comments:	Div. or Company Div. or Company LPCSMO20 Lab Comments:
Ground water sampled by (Indicate of (2) Pumping; (3) Other (Specify) Sample Appearance: Collector comments: Transported by LAB USE ONLY Lab No. COLUMN 18 18 18 18 18 18 18 18 18 18 18 18 18	Div. or Company Div. or Company LPCSLMO20
Ground water sampled by (Indicate of (2) Pumping; (3) Other (Specify) Sample Appearance: Collector comments: Transported by LAB USE ONLY Lab No. COLUMN COLUM	Div. or Company Div. or Company LPCSMO20 Lab Comments:
Ground water sampled by (Indicate of (2) Pumping; (3) Other (Specify) Sample Appearance: Collector comments: Transported by LAB USE ONLY Lab No. 1992487	Div. or Company LPCSMO20 Lab Comments:
Ground water sampled by (Indicate of (2) Pumping; (3) Other (Specify) Sample Appearance: Collector comments: Transported by LAB USE OHLY Lab No. COO2487 Pate Rec'd 10-27-8/	Div. or Company Div. or Company LPCSLIO20 Lab Comments: (27) (36)
Ground water sampled by (Indicate of (2) Pumping; (3) Other (Specify) Sample Appearance: Collector comments: Transported by LAB USE ONLY Lab No. Collector Comments: Transported by LAB USE ONLY Lab No. Collector Comments: Transported by LAB USE ONLY Lab No. Collector Comments: Transported by LAB USE ONLY Lab No. Sample temp. acceptable Sample properly preserved YES NO. Date completed	Div. or Company Div. or Company LPCSIMO20 Lab Comments: (27) (36)
Ground water sampled by (Indicate of (2) Pumping; (3) Other (Specify) Sample Appearance: Collector comments: Collector comments: Transported by LAB USE ONLY Lab No. Collector Comments: Transported by LAB USE ONLY Lab No. Collector Comments: Transported by LAB USE ONLY Lab No. Collector Comments: Transported by LAB USE ONLY Lab No. Sample temp. acceptable Sample properly preserved YES NO.	Div or Company Div. or Company LPCSLMO20 Lab Comments: (37) (36)
Ground water sampled by (Indicate of (2) Pumping; (3) Other (Specify) Sample Appearance: Collector comments: Transported by LAB USE ONLY Lab No. Cate Rec'd 10-27-8/ Rec'd bf-cill Time 4-20 a.m Sample temp. acceptable YES NO Date completed Ente forwarded Administration of the completed	Div or Company Div. or Company LPCSLA020 Lab Comments: (27) (36)
Ground water sampled by (Indicate of (2) Pumping; (3) Other (Specify) Sample Appearance: Collector comments: Transported by LAB USE ONLY Lab No. Cate Rec'd 10-27-8/ Rec'd bf-chl Time 4:20 a.m Sample temp. acceptable YES NO Sample properly preserved YES NO Date completed Inte forwarded 2.4. If the completed Inte forwarded 2.4. If the completed Inte forwarded 2.4. If the completed Inte forwarded 2.4. If the completed Inte forwarded 2.4. If the completed Inte forwarded 2.4. If the completed Interference of	Div. or Company Div. or Company LPCSM020 Lab Comments: (27) (36) (37) (46) (57)
Ground water sampled by (Indicate of (2) Pumping; (3) Other (Specify) Sample Appearance: Collector comments: Transported by LAB USE ONLY Lab No. Collector Comments: Transported by LAB USE ONLY Lab No. Collector Comments: Transported by LAB USE ONLY Lab No. Collector Comments: Transported by LAB USE ONLY Lab No. Sample Rec'd 10-27-8/ Rec'd by Collector Time 4:20 a.m Sample temp. acceptable YES NO. Sample properly preserved YES NO. Date completed Ente forwarded 12-44-44 Name Environmental Protection	Div. or Company Div. or Company LPCSM020 Lab Comments: (27) (36) (37) (46) (57) (56) Agency (76)
Ground water sampled by (Indicate of (2) Pumping; (3) Other (Specify) Sample Appearance: Collector comments: Transported by LAB USE ONLY Lab No. Collector Comments: Transported by LAB USE ONLY Lab No. Collector Comments: Transported by LAB USE ONLY Lab No. Collector Comments: Transported by LAB USE ONLY Lab No. Collector Comments: Transported by LAB USE ONLY Lab No. Sample temp. acceptable (YES) NO. Sample temp. acceptable (YES) NO. Sample properly preserved (YES) NO. Date completed Enterorwarded (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Div. or Company Div. or Company LPCSLO20 Lab Comments: (27) (36) (37) (46) (77) (56) Figency (76) Prices value Lab (X)
Ground water sampled by (Indicate of (2) Pumping; (3) Other (Specify) Sample Appearance: Collector comments: Transported by LAB USE ONLY Lab No. Collector Comments: Transported by LAB USE ONLY Lab No. Collector Comments: Transported by LAB USE ONLY Lab No. Collector Comments: Transported by LAB USE ONLY Lab No. Sample Rec'd 10-27-8/ Rec'd by Collector Time 4:20 a.m Sample temp. acceptable YES NO. Sample properly preserved YES NO. Date completed Ente forwarded 12-44-44 Name Environmental Protection	Div. or Company Div. or Company LPCSMO20 Lab Comments: (27) (36) (37) (46) (57) (56) Agency (76)

Analyses are to be performed on <u>unfiltered</u> samples. *Values exceeding no. of places shown are reported in the lab comment, section; tests requested but not run should also be explained in the lab comments section.

C	. ^	497 NCTA	197 6 30
		APAGETERS THE	PPM
24	•	Alkalinity ²	- FFA
27 31	X	Ammonia as N	0.9
37	76	Arsenic As	0.003
44	V	Farium En	
49.		POD -5	
53		Boron F	
58	7	Cadrium Ci	0.0/
64		Calsium Ca	
69	1	COD	1783
73	14	Chloride Cl	
13	<u></u>	•	31:04:0
	下	<u> </u>	
27 ,	广	Chrosium Cr (tot)	o.13
33	-	Chromium Cr*?	
39	Jan Jan	Copper Cu	
45	-	Cyanide CD	
52	-	Frenchi	X X X X
56	-	Fluoride F	
61	-	Hardness CaCO:	
65		Iron Fe	183.4
70		Lensi Pb	Q.33 X
	,	UP	(a. 15.19)
27	1	Mornesium Mr	7/6 3
32	1	Hanganese Hn	<u>7.78</u> 2
38		Mercury Hg	トイナイ
45	1	Hickel Hi	o/
51	مأتار	Nitrate-nitrite N	0.28
56.	Ľ	Oil and Greace	x
1 60		pH (Units)	X
63	K	Phenolics	0.095
70		Phosphanus 2	
73	X	Potassium K	
	-τ	í.PC	CSMOCO
27	Γ	8.0.E. (140°C)	
31	X	Colenium Co	0.00 1
20	K	Silver Ag	0.00
44	1	Sodium Un 3	
49		SC (umhos/em)	
53	-	Sulfate SO4	. X X X
58		ira de	a.5
1 /3	7	1	

 $^{1}\mathrm{Aikniinity}$ is to be determined as ppm of $-\mathrm{CacO}_{3}$ at pH 4.5.

ime Collected:			Lab #	D02298:	5
Date Collected: 12:25	SPECIAL ANALY	SIS FOR	M Date Receiv	ed COT 30	991
	ENVIRONMENTAL			' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	
DIVISION	OF LAND/NOISE				
COOK	FILE HEADING: CHICAGO,	145	SCRAR	FILE NUMBER	
			00////		
SOURCE OF SAMPLE: (Exact Locati	on)	Com			
			·····		
NINGTON ODGDDWARTONG DTWART					
PHYSICAL OBSERVATIONS, REMARKS:	·				· · · · · · · · · · · · · · · · · · ·
				·	
		·		 	············
		•			
#16D					
ESTS REQUESTED:	The second of the	Service .			
*		·			
	18. ⁴⁸			. n 2527 F 28	
COLLECTED BY: _GHARLES & COLLECTED	TR	ANSPORTE	D BY:	A STATE OF S	na Para
	LABORATO	ORY			
RECEIVED BY: FX	DATE COMPLETED:	12/	36/81	DATE FORWARDED:	12/30
				Q.	Stude
000 = 1 /	(and)				
PCB2 = 5.6 ug/	-e (PP6)	 	·		·
Phenol = 9600, ug Methylphenol = 6.	1e			. 	
Methylphenol = 6.	300 . Mg/e				
					· · · · · · · · · · · · · · · · · · ·
		-		 	
					, 1 3
					. · · ·
	•				

H.W.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND/NOISE POLLUTION CONTROL CHEMICAL ANALYSIS FORM

Key for Determining Type of Monitoring Point
(S) Surface Water (G) Ground Water (L) Leachate (X) Special (1) Upstream (1) Monitor Well (1) Flow or (1) Soil
(2) Mid-site (2) Private well (2) Pond (2) Waste (3) Downstream (3) Spring (3) Collection (3) Other (4) Run-off (4) Lysimeter System (5) Impounded (5) Public W S
(5) Impounded (5) I abite in 5
Name (Private Weil, Stream, Spring, Impounded Water only)
L P C S M O 1 O SITE INVENTORY (9) (16)
MONITOR POINT $(\overline{17})$ $(\overline{20})$ DATE $(\overline{21})$ $(\overline{26})$ $(\overline{26})$
Co LPC REGION (377)
(Location) (Responsible Party)
(Location) (Responsible Party)
Legal (1); Illegal (2); Indicate One: Board Order (X) (29)
Time Collected $\frac{1}{0.00}$ Unable to collect sample (X)
Stick-up (31) (33) Epth to water (34) (36)
Sample temp. O Background (X) (37) (39)
Ground water sampled by (Indicate one): (1) Bailing; (2) Pumping; (3) Other (Specify) (41) Sample Appearance:
Collector comments: 777.5.5 100.00
Collector comments:
Collegate Div. or Company
Transported by Div. or Company
LAB USE ONLY LPCSMO20
Lab No. CO02488 Lab Comments:
Lab No. COO2488 Cate Rec'd $) 0.27.8 $ Lab Comments: $COD_{(27)} CD_{(27)} CD_{(36)}$
Lab No. CON 2488 Date Rec'd 10.27. 21 Rec'd by Tollfime Li 22 a.m. BOD 2 2167 (36)
Lab No. COO2488 Date Rec'd) 2.27. & COD 11200 (36) Rec'd by Journal Line Line a.m. BoD 2 216 (36) Sample temp. acceptable (TES) NO Rote (37) Sample properly preserved (YES) NO Rote (46)
Lab No
Lab No
Lab No
Lab No

nadao netat

02488 00	T27
FARAMETERS	PP)(*
27 Markalinity ²	3350.22
31 Ammonia as 4	110.0*
37 Arsenie As	0.07-
44 A Partum Bar C	Contenence
49 X 20D -5	
53 💹 Boron F	
58 Cadmium Ci	0.0
64 Calsium Ca	1183 3
69 7 (00)	<u>X:X:X</u>
73 M Chloride Cl 1	13000
<u>LP</u>	201940 T = ₩
27 Chromium Cr (tot)	0.47
33 Chromium Cr ^{+D}	Interference
39 K Copper Cu	<u>0.132</u>
45 Cyanide CN -	
52 (#/100 Coli	X X
56 Flooride F	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
61 diardness Cacha	0000
65 K Iron Fe	<u>_ 477.9</u>
70 Lead Ph	0.57
1.11	1501040
27 Marnesium Mr.	- <u>a. (a </u>
32 Manganese Mn	<u> </u>
38 L'ercury lig	
45 Nickel III	0.0
51 K. Hitrate-nitrite	
56 TOTE TOTO OTENTION	
60 phi (Units)	65
63 Phenolics	1-13·6×2
70 Phosphorus ?	4·4×
75 Potasnium K	160 - 1
	PCSEOGO
27 (R.O.E. (150°C)	X
31 Seleniam Co	0.01
36 X Silver Ag	435 ***
44 Codium III (9708 * * * *
49 SC (umhos/em) 53 Sulfate CO _Z	1080-6
10	4.0xx
58 / (ite .dn	<u> =:</u>
- °	J=======

 $^{1}\mathrm{Aikalinity}$ is to be determined as ppm of Caco_{3} at pH 4.5.

Jan Jan Jan

^{*}Analyses are to be performed on unfiltered samples. *Values exceeding no. of places shown are reported in the lab comment section; tests requested but not run should also be explained in the lab. comments section.

Time Collected:	/	Lab #	DOZZZZZ
Date Collected:	SPECIAL ANALYSIS	FORM Date Receive	ed (CCT 20 1991)
	INOIS ENVIRONMENTAL PRO ISION OF LAND/NOISE POL	LUTION CONTROL	
COUNTY:	FILE HEADING:	(FILE NUMBER; 03160032
SOURCE OF SAMPLE: (Exact L	ocation)		
			· · · · · · · · · · · · · · · · · · ·
PHYSICAL OBSERVATIONS, REMA	arks: Black	artereta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la	:_
	- Promotor Solone		Hora.
	<i>6</i> °.	<i>s</i>	<i>F</i>)
			
TESTS REQUESTED:	the state of the s	Son Francisco	
COLLECTED BY: CHARGES GES		PORTED BY:	The second second
	LABORATORY	7 10	DAMD
RECEIVED BY: VW	DATE COMPLETED: /2	2/30/81	DATE FORWARDED: 1,2/30/
Toluene = 19,0	00. uc/l		LAure
4-Methy/-2-pe,	01	o my/e	
Xylenes = 13,000.		7/	
Cz-Benzene = 420	<i>U</i>		
Trimethy/cyclohex	U		
Trimethylcycloliex	•		
Naphtholene = 80			
•	tor ·		V .
phenol = 8900, 4	,		
Methylphenol= 8	•		
PCBs = 2.4 ugle			
LPC-8A 4/77	(NOT FOR DATA PROC	ESSING)	

H.W.

0022987

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND/NOISE POLLUTION CONTROL CHEMICAL ANALYSIS FORM

Key for Determining Type of M	onitoring Point				
'(S) Surface Water (G) Ground Water	(L) Leachate (X) Special				
(1) Upstream (1) Monitor Well	(1) Flow or (1) Soil				
(2) Mid-site (2) Private well	secp (2) Pond (2) Waste				
(2) Mid-site (2) Private well (3) Downstream (3) Spring	(3) Collection (3) Other				
(4) Run-off (4) Lysimeter	System				
(5) Impounded (5) Public W S					
(y) Importated (y) 120222					
Name (Private Weil, Stream, Spring, In					
L P C S M O 1 O SITE INVEN	TORY 63/5003 (5)				
	, 11				
MONITOR POINT DATE NUMBER (20) COLLECTED	(21) 02 28-1				
Co LPC	REGION- (27)				
1 455	J 1				
(location)	(Responsible Party)				
Legal (1); Illegal (2); Indicate One:					
<u> </u>	$\frac{2\delta}{\delta}$ (29) Le to collect sample (X):				
	(30)				
	to water 5.81. T.O.C.) (34) (36)				
Sample temp. 0 Back((37) (39)	Ground (X) (40)				
and the constant of the constants	, i				
Cround water sampled by (Indicate one): (1) Bailing;					
(2) Pumping: (3) Other (Specify)	(1) Bailing;				
(2) Pumping; (3) Other (Specify)	: (1) Bailing; (41)				
(2) Pumping; (3) Other (Specify) Sample Appearance:	: (1) Bailing; (41)				
(2) Pumping; (3) Other (Specify)	: (1) Bailing; (41)				
(2) Pumping; (3) Other (Specify)	(41)				
(2) Pumping; (3) Other (Specify)	(41)				
(2) Pumping; (3) Other (Specify)	(41)				
(2) Pumping; (3) Other (Specify)	(41)				
(2) Pumping; (3) Other (Specify)	(41)				
(2) Pumping; (3) Other (Specify) Sample Appearance: Collector comments:					
(2) Pumping; (3) Other (Specify)					
(2) Pumping; (3) Other (Specify) Sample Appearance: Collector comments:					
(2) Pumping; (3) Other (Specify) Sample Appearance: Collector comments: Colfected by Transported by	Div. or Company				
Collector comments: Collector comments: Collected by Transported by LAB USE ONLY	Div. or Company Div. or Company LPCSM020				
Collector comments: Collector comments: Collected by Transported by LAB USE ONLY Lab No. COLO 2489	Div. or Company Div. or Company LPCSM020 Lab Comments:				
Collector comments: Collector comments: Collected by Transported by LAB USE ONLY Lab No. COLO 2489	Div. or Company Div. or Company LPCSMO20 Lab Comments:				
(2) Pumping; (3) Other (Specify) Sample Appearance: Collector comments: Carrected by Transported by LAB USE ONLY Lab No. CO02489 Date Rec'd 0.27.21	Div. or Company Div. or Company LPCSM020				
Collector comments: Collector comments: Collected by Transported by LAB USE ONLY Lab No. COLO 2489	Div. or Company Div. or Company LPCSMO20 Lab Comments:				
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Collector comments: Collector by Collector comments: Collector commen	Div. or Company Div. or Company LPCSM020 Lab Comments: (27) (36) (37) (46) (77) (56)				
Collector comments: Collector	Div. or Company Div. or Company LPCSM020 Lab Comments: (27) (36) (37) (46) (37) (56)				
Collector comments: Collector	Div. or Company Div. or Company LPCSMO20 Lab Comments: (27) (36) (37) (46) (77) (56) Private Lab (X)				
Collector comments: Collector	Div. or Company Div. or Company LPCSM020 Lab Comments: (27) (36) (37) (46) (37) (56)				

02489 OCT27

$\{\}$	2.0	185 INTS		
	LPCSM030			
1	ائي ا	ARAMETERS [†]	pp.(*	
27	凶	A'kalinity'	1740.2	
31	X	Ammonia as N	98.0-1	
37	X	Arsenia As	0.05-	
44		Sarium Ba	19 nteren -	
40	X	20n -5	193.	
53	T	Baron P	2.8	
5E	X	Cadmium Ci	0.0	
64	见	Colsium Cn	606-	
69	10	COD	1000 22	
73	:	Oliloride Cl	530	
	مدم		02000	
27	Jan 1	Chromium Cr (tot)	2 2 4	
33	依	Chromium Cr (10)	7 7 7 7	
	闵		046	
39	1	Copper Cu		
45		Cyanide CH Fecal Coli		
52	مهد	Facati	7	
56	4	Fluoride F	72000	
61	A	Hardness CaCO3	1300	
.65	K	Iron Fe	<u> 81.8 </u>	
70	14	Leau Pb	0.16	
	المراثا	1.15	Proprieto	
27	₽ A	Normentum H:	769-48	
32	M	Manganese Mn	<u>3.6./8.8</u>	
38	X	Fercury Hy		
46	K	Nickel Ni	0.9	
51	Jan H	Mitrate-nitrite N	30 300 300	
56		Oil and Greace		
60	F	ph (Units)	2.3 × ×	
63	次	Phenolics	1.28*	
70	To the	Phosphorus 2	0.87	
73	TA	Potassium K	9464	
	ا		PCSLOGO	
5.77	مر	R.O.E. (18000)	222	
27	1		2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
31 33	P	Folenium Co	600 000	
	K	Silver Ag	446-4	
44	1	CC (umbon/om)	4633	
49	1	SC (www.com)	200 300 300	
53	15	Sulfate SO2		
	JAST .	Tire on		
53 63	·/	1	1 '	

Aikalinity is to be determined as ppm of CaCO3 at pH 4.5.

^{*}Analyses are to be performed on unfiltered samples. Values exceeding no. of places shown are reported in the lab comment, section; tests requested but not run should also be explained in the lab comments section.

Time Collected:	· #723		D0ZZ988
Date Collected:	SPECIAL ANALY	SIS FORM Date Rece	eived [CT 27 198]
	IS ENVIRONMENTAL ON OF LAND/NOISE		
COUNTY:	FILE HEADING:		FILE NUMBER: 03160032
SOURCE OF SAMPLE: (Exact Loca	tion) Com C3 \$		
PHYSICAL OBSERVATIONS, REMARKS			of the state of th
		·····	
	·		7
	·	· · · · · · · · · · · · · · · · · · ·	
TESTS REQUESTED:	The second of the second of	e. Pel	<u> </u>
COLLECTED BY: CHARLES GESTER	TRI	NSPORTED BY:	the state of the s
	LABORATO		
RECEIVED BY: PM	DATE COMPLETED:	12/30/81	DATE FORWARDED: /2/30,
Tolyene = 770, mg/s	2		04
Xylenes = 720, ug/			
C3-Benzene=800 ug	12	···	
Trimethylcyclohexo	nol== 310. ug	ye	
Trimethy cyclohexor	1011e = 2600	ugle	
PCBs = 4.6 Mg/e			
			,

LPC-8A 4/77

(NOT FOR DATA PROCESSING)

D022988

34-37N-14E

PARCELS_CST 1 and CST 2

The following described property (except that part lying north of a line 875 feet north of the center line of 126th Street, as extended): Papall

AN IRREGULAR SHAPED PARCEL LYING NORTHEASTERLY OF THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO PROPERTY AND SOUTHWESTERLY OF 40 FOOT WIDE DEDICATED SOUTH COTTAGE GROVE AVENUE IN THE EAST 1/2 OF SECTION 27 AND FRACTIONAL SECTION 27 SOUTH OF INDIAN BOUNDARY LINE BOTH IN TOWNSHIP 37 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, AND BEING AT A POINT OF INTERSECTION OF THE EAST WEST CENTER LINE OF SAID SECTION 27 WITH A LINE THAT IS PARALLEL TO AND 250 FEET DISTANT FROM THE CENTER LINE OF THE MICHIGAN CENTRAL RAIL-ROAD COMPANY TRACT NUMBER 120 WHICH POINT IS FOUND BY COMMENCING AT THE SOUTH EAST CORNER OF SAID SECTION 27 AND THENCE NORTH 87 DEGREES 13 MINUTES 19 SECONDS EAST ON THE SOUTH LINE OF SECTION 26, TOWNSHIP 37 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, A DISTANCE OF 766.83 FEET TO A LINE THAT IS PARALLEL TO AND 250 FEET DISTANT FROM THE CENTER LINE OF THE MICHIGAN CENTRAL RAILROAD COMPANY'S TRACK NUMBER 120; THENCE NORTH 35 DEGREES 36 MINUTES 41 SECONDS WEST ON SAID 250 FOOT PARALLEL LINE A DISTANCE OF 3161.90 FEET TO THE EAST WEST CENTER LINE OF SAID SECTION 27 AND THE POINT OF BEGINNING, THENCE CONTINUING NORTH 35 DEGREES 36 MINUTES 41 SECONDS WEST ON SAID 250 FOOT PARALLEL LINE A DISTANCE OF 1042.25 FEET; THENCE NORTH 46 DEGREES 46 MINUTES 31 SECONDS WEST ALONG THE NORTHEASTERLY LINE OF SAID METROPOLITAN SANITARY DISTRICT PROPERTY A DISTANCE OF 911.12 FEET, THENCE NORTH 58 DEGREES 26 MINUTES 41 SECONDS WEST A DISTANCE OF 508.71 FEET, THENCE NORTH 21 DEGREES 50 MINUTES 30 SECONDS EAST A DISTANCE OF 354.43 FEET TO THE SOUTH EAST CORNER OF A PARCEL OF LAND OWNED BY STAINLESS PROCESSING COMPANY, THENCE SOUTH 47 DEGREES 5 MINUTES 23 SECONDS EAST A DISTANCE OF 1181.17 FEET TO POINT OF INTERSECTION OF THE NORTH LINE OF 40 FEET WIDE 124TH STREET AND THE WESTERLY LINE OF 40 FOOT WIDE SOUTH COTTAGE GROVE. THIS 1181.17 FOOT LINE BEING MORE OR LESS 20 FEET SOUTHWESTERLY OF THE CENTER LINE OF A SERIES OF LADDER TRACKS OF A RAILROAD YARD, THENCE SOUTH 35 DEGREES 36 MINUTES 41 SECONDS EAST A DISTANCE OF 1540.70 FEET TO THE EAST WEST CENTER LINE OF SAID SECTION 27, THENCE SOUTH 87 DEGREES 3 MINUTES 19 SECONDS WEST ON SAID EAST WEST CENTER LINE A DISTANCE OF 190.06 FEET TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS

ALSO Parcel Z

A 160 FOOT WIDE PARCEL OF LAND LYING NORTHEASTERLY OF THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO PROPERTY AND SOUTHWESTERLY OF 40 FOOT WIDE DEDICATED SOUTH COTTAGE GROVE AVENUE IN THE SOUTHWEST 1/4 OF SECTION 26, AND THE SOUTH EAST 1/4 OF SECTION 27 BOTH IN TOWNSHIP 37 NORTH, 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, AND BEGINNING AT A POINT IN THE DEDICATED NORTH 50 FOOT RIGHT OF WAY LINE OF 130th STREET THAT IS FOUND BY COMMENCING AT THE SOUTH WEST CORNER OF SAID SECTION 26 AND THENCE NORTH 87 DEGREES 13 MINUTES 19 SECONDS EAST ON THE SOUTH LINE OF SAID SECTION 26 A DISTANCE OF 766.83 FEET TO A LINE THAT IS PARALLEL TO AND 250 FEET DISTANT FROM THE CENTER LINE OF THE MICHIGAN

CENTRAL RAILROAD COMPANY'S TRACK NUMBER 120, THENCE NORTH 35 DEGREES 36 MINUTES 41 SECONDS WEST ON SAID 250 FOOT PARALLEL LINE A DISTANCE OF 59.50 FEET TO THE NORTH LINE OF DEDICATED 130TH STREET AND THE POINT OF BEGINNING, THENCE CONTINUING MORTH 35 DEGREES 36 MINUTES 41 SECONDS WEST ON SAID 250 FOOT PARALLEL LINE A DISTANCE OF 3102.49 FEET TO THE EAST WEST CENTER LINE OF SAID SECTION 27, THENCE NORTH 87 DEGREES 3 MINUTES 19 SECONDS EAST ON SAID EAST WEST CENTER LINE A DISTANCE OF 190.06 FEET TO A LINE PARALLEL TO AND 160 FEET NORTH-EASTERLY OF AFORESAID 3102.40 FOOT LINE, THENCE SOUTH 35 DEGREES 36 MINUTES 41 SECONDS EAST ON SAID 160 FOOT PARALLEL LINE A DISTANCE OF 3103.06 FEET TO THE NORTH LINE OF SAID 130th STREET THENCE SOUTH 87 DEGREES 13 MINUTES 19 SECONDS WEST ON SAID NORTH LINE A DISTANCE OF 190.42 FEET TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS

Interested Parties: Avenue Bank & Trust Company of Oak Park, as
Trustee under Trust Agreement dated April 10,
1981 and known as Trust No. 2782; "Unknown
Owners"

Interest to be taken: Fee Simple Title

	n:	/
October 25, 1974 Mr. R. Babich, Supr. 928-2300		ill
Person S. Whitebloom	<u>Date</u>	Time Verbal
Water Samplers:		
,	•	
Additional Information A	ttached O	
	Person S. Whitebloom Water Samplers:	Person Date S. Whitebloom 10-24-74

Per-instructions of Mr. S. Whitebloom, October 24, 1974; conduct daily inspection on subject company's property for the purpose of surveillance regarding receipts of materials, clean up, and removal of liquid and dry wastes from their property.

A joint inspection with Mr. Babich, Supervisor for U.S. Scrap, was conducted today at company facility about 119th street & Cottage Grove Avenue. The following noted:

A new clay berm is being constructed along the east property of U.S. Scrap.

A bulldozer had been leveling off the ground and filling in ponds along the east property of U.S. Scrap.

About 200 empty drums were stacked along the west property.

There were some employees moving empty drums and cleaning up.

Mr. Babich showed us an area, where an underground 16,000 gallon tank is located. He stated, the purpose of the tank was to dump full drums of waste materials (paint, oil) into this tank, then pump the materials out into a tank truck and haul the material to Indiana. See one photo of drums that had been dumped recently.

Mr. Babich stated, he had no knowledge the company was not to receive any materials and would contact their attorney. In the meantime, he stated, a load of waste materials in drums were enroute to their plant, but would hold off dumping.

At the time of this inspection, there was no dumping of liquid waste at this location.

Inspection of U.S. Scrap operations in and around Garvey Grain Elevators at about 123rd Street east of the Calumet Treatment Plant. There was no activity; no dumping of any type going on.

(continued)

U.S. Scrap Corp., BOARD ORDER Compliance, July, 1974

Oct 25, 1974

Inside the grain elevators, the basement was full of black oil and water.

During this inspection, Switchman for the Penn-Central Railroad came up to our car and inquired as to what are we doing about U.S. Scrap dumping thick sludge material from tankers? Also, why do we let U.S. Scrap tear down the fences belonging to the Metropolitan Sanitary District? The employee volunteered information, and stated, he saw U.S. Scrap and Liquid Engineer trucks dump liquid material on the ground. Also, dig holes in the ground and empty the liquid into the holes and cover them up. This was in the area to the east and south of the grain elevators about October 1, 1974 and on other occasions. The Penn-Central employees name is Mr. Jim Miller, phone 779-0093, address, 10833 St. Louis Avenue, Chicago, Illinois. Mr. Miller offered to testify to the above statements.

Mr. Herman Wooley, Supervisor for the Penn-Central Railroad also provided information. Last fall, 1973, tank trucks of U.S. Scrap and Liquid Engineer were dumping liquid material about 100 feet north and to the east of the grain elevators onto the ground. The material was running onto the railroad tracks. Mr. Wooley notified the company's Division Engineer, Mr. Hartenburg, at Gibson, Indiana, of the dumping being done by U.S. Scrap and possible damage to the railroad tracks. Mr. Wooley covered the material over with dirt. Mr. Herman Wooley offered to provide testimony as to liquid waste dumping by U.S. Scrap and Liquid Engineering trucks during the fall of 1973. Mr. Herman Wooley's phone number is 219-932-0891. He will provide residence address if necessary.

Stations #1 and #2 were inspected. There was no runoff or leaching to the M.S.D. property.

No waterways discharge from U.S. Scrap property today.

There were no U.S. Scrap personnel cleaning or removing oil from the M.S.D. east ditch.

J. Corcoran, PCO II

CM/re

C. Meyers, PCO I

INTER OFFICE MEMORANDUM

The Metropolitati Sanitary District of Greathr Chicago

DEPARTMENT: Research and Development

DATE: Sept. 20, 1974

Mr. Allen S. Lavin, Attorney Law Department - O f f i c e

FROM: Cecil Lue-Hing, Director Research and Development

TO:

SUBJECT: Recommendation for Lawsuit

United States Scrap Corporation

The subject company operates an industrial waste disposal facility which adjoins the Calumet Water Reclamation Plant of the Metropolitan Sanitary District of Greater Chicago. It has discharged pollutants onto District property, into the sanitary sewerage system, and into waters under the District's jurisdiction.

On June 20, 1974 the Board of Trustees passed an order which stated in part that the subject company should immediately cease and desist from such actions and be in compliance with the Sewage and Waste Control Ordinance by July 20, 1974. The hearing officer had recommended a full compliance date of June 28, 1974, but the Board extended the date when representatives of the company appeared at the Board meeting and requested more time because inclement weather had delayed construction of a clay berm.

On July 31, 1974 personnel of the Industrial Waste Control Division observed liquid leaching through a clay berm onto District property. Analysis of a sample of that liquid revealed a concentration of 37,670 mg/l of hexane solubles, identifying it as a pollutant.

On August 2, 3, 7, 9, 12, 13, 14, 16 and 21, 1974, other samples of leachant to District property were taken at a point identified as Station #2. Analyses of those samples revealed the following pollutant concentrations:

•	
•	
mg/l Hexane	Solubles
10,076	
1,269	
1,000,000	(100%)
1,000,000	(100%)
6,987	
27,353	
12,768	
25,000	
6;325	
6,312	
	10,076 1,269 1,000,000 1,000,000 6,987 27,353 12,768 25,000 6,325

Mr. Allen S. Lavin Recommendation for Lawsuit United States Scrap Corporation

On August 8, 9, 12, 13, 14 and 15, 1974, personnel of the Industrial Waste Control Division secured samples of material leaching from the subject company's property to District property at a point identified as Station #1, which enters the sewers of the Calumet Treatment Plant. Analysis of those samples revealed the following concentrations of contaminants:

Station #1	mg/l	mg/l	mg/1
Date	Hexane Solubles	Zinc	Iron
8-8-74	7005	59.8	14,0
8-9-74	-	49.9	260
8-12-74	, -	45.1	275
8-13-74	·	36.8	315
8-14-74	-	28.5	273
8-15-74	- "	-	187
8-15-74	4369	, 	

These discharges are specifically identified as pollutants under the Board Order and also exceeded the limits for discharge to a sanitary sewerage system, which are for hexane solubles, 100 mg/l; for zinc, 15.0 mg/l; and for iron, 50 mg/l.

It is therefore recommended that a lawsuit be filed in this matter, for failure to comply with a Board of Trustees Order.

Cecil Lue-Hing

Director,

Research and Development

Prepared by:

Chief Enforcement Officer

General Superintendent

IWC FILL OPERATION - SPECIAL IN. STIGATION

Subject of Investigation:

Date of Investigation:

U. S. ECRAP CO. 400 East 123rd Street Chicago, Ellinois April 11, 1972

Originated by:	Main Office	<u>Person</u>	<u>Date</u>	Time
	Clean Streams O Local Authority O	-J. Corcoran	4-11-72	8:00 AM
Type of Complaint	:			
. •	wer Other 😠			
Illegal Dumping Supervisor Assigno	ed,	Wotor Compleme		· :
	-	Water Samplers:		
C. Meyers			• •	
Samp'e 🔘	Photographs 🔘	Additional Information At	tached O	

INVESTIGATION: To establish illegal dumping of sludge at U. S. Scrap Co., 400 East 123rd street, Chicago, Illinois.

Informant provided information as to one source where U. S. Scrap Co. picked up sludge from NALCO Chemical Co. in Bedford Park, Illinois.

Mr. Jack Koszarek, Environmental Engineer for NALCO Chemical Co., was contacted by phone and asked who picked up their sludge from the Company's Treatment Plant. Mr. Koszarek stated, U. S. Scrap at 400 East 123rd street, Chicago, did hauls the sludge for disposal to Indiana. U. S. Scrap would be in today, 4-11-72, for a load of sludge. Mr. Koszarek furnished the following information; The truck marked Liquid Engineering, arrived at NALCO Plant, 1:40 P.M. today, 4-11-72, for approximately 30,000 pounds of sludge from the Company's water treatment plant.

The tractor License plate, 1284 V, Ill.-72 The tanker License plate, 35587, Ill.-72

NALCO retained two (2) one gallon samples of the material loaded into the tank truck. as requested by J. Corcoran for I.W.C. comparison and analysis.

The tank truck left NALCO Plant in Bedford Park at 4:10 P.M.

Contacted Mr. Pytle, of M. O. Calumet Plant and requested assistance to provide a man and a fadio car to observe from the M. S. D. property, Calumet Plant, and inform unit #323 by radio, when the truck arrived at U. S. Scrap property, which is alongside the M. S. D. prop.

The writer arrived in unit 323 in the area of FM 115th street and Cottage Grove avenue at 4:50 P.M. A radio check with Unit #339, Mr. F. Schrieber of Sewer Control, was made and the surveillance was now in effect, to spot the truck entering the only entrance to U. S. Scrap, offfof Kensington avenue.

v. s. Scrap Co., illegal dumping

April 11, 1972

Due to an emergency, anexplosion and fire at the HAAG Lab Plant in Dixmoor, the writer and Unit #323 was dispatched by Mr. S. Whitebloom to HAAG Lab, 141st-and Seeley, Dixmoor.

At 6:50 P.M. received a radio dispatch from Mr. Rado, Calumet Plant, the Liquid Engineer truck had arrived at the U. S. Scrap Plant, around 6:30 P.M.; dumped the contents and left. Due to some of the sludge running over into the M. S. D. property, a pint sample was obtained by Mr. Rado and held in the Calament Calumet Lab, tagged for Mr. S. White-bloom.

The sample was picked up from the Cal Lab 4-12-72 and is now at the I. W. C. South Office. The appearance of the sample was watery-black and contained a heavy oily odor.

le Meyers

THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO RESEARCH AND CONTROL LABORATORY ATOMIC ABSORPTION METALS REPORT

SAMPLE COLLECTION DATA:						21KI	SIRIAL WASIE					ANALYSIS DATA:						
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PERIO	D <u>4/11/72</u>		<u> </u>						•				•	< = less than N.A.≃ no analysis				
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THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO INDUSTRIAL WASTE ANALYSIS

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THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO RESEARCH AND CONTROL LABORATORY ATOMIC ABSORPTION METALS REPORT

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C	ALLOWABLE DISCHARGE LIMIT		1.0	0.05	0.04		0.05	10.0	2.0	0.1	0.5		1.0	10.0	5.0	0.05		
LAB. NO.	DESCRIPTION	A.A. NO.	Zn	Cd	Cu	Total Cr	Hexa- valent Cr	Fe	Ni	Pb	# Hg	В	As	Se*	Ba	Ag		
9601		5688	168	0.19	27.8	155.2	0.33	605.	2.0	3.69	136		3,6	0	0.7	0.05		
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P.P.G.

THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO Z/61 T J AVAIL INDUSTRIAL WASTE ANALYSIS

	DRESS Chicago, Illinois								_ SAMPLING POINT U.S. Scrap Co. to M.S.D. property _ COMPOSITESANITARY SEWEREFFLUENT DISCHA _ GRAB * PVT. TRT. PLANT WATERWAYS R									CHAF	RGEX
197	2	ý			S			C.	.IDS			8	ROG	ΕN	AS	ĀS			
DATE	TIME	SAMPLER	LAB. NO.	рН	HEXANE SOLUBLE	COD	BOD	TOTAL	TOTAL SUSPENDED	VOLATILE SUSPENDED	DISSOLVED SOLIDS	TOTAL AS N	FREE AMMONIA AS N	NITRITE+ NITRATE AS N	TOTAL CYANIDE A CN	FREE CYANIDE A	PHENOL (1/64)		5
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Interim Report for Environmental Control

LIQUID WASTE PROCESSING FOR

U.S. SCRAP CORPORATION

H.C.Porter, Engineer 1210 Frassie Avenue Flossmoor, Illinois April 20, 1972 On Perch 13, 1972 an Engineering Report entitled "Liquid Maste Processing" for U.S. Scrap Corporation, located at 12300 S. King Drive, was presented to the Board of Environmental Control, City of Chicago. The Abstract from the Report is as follows:

* The U.S. Scrap Corporation is developing an incinerator with afterburner and gas scrubber for the purpose of disposing of industrial liquid wastes.

This report describes the overall operation, its influence on the adjacent neighborhood, the immediate disposal of waste resulting from the previous development work and the establishment of orderly housekeeping.

Past development operations at the site has resulted in considerable empty drums, a filled-in retention dike which is weeping liquid wastes into the West property line ditch and undisposed fill materials.

It is proposed to:

- 1. Seal the filled-in dike with clay.
- 2. Form a sump for the drainage of latent liquid wastes.
- 5. Pump the resultant liquid thru filters to burner feed.
- 4. Dispose of the scattered fill materials.
- 5. Arrange drums in an orderly manner.
- 6. Form a stone base road with shoulders and drainage ditches.
- 7. Remove junk equipment.
- 8. Establish good housekeeping in anticipation of continued development work on the liquid waste disposal process."

The report contained 5 drawings:

"Site Location"

HPlot Plan"

"Process Area Plan"

"Plow Diagram"

"Cross Section"

The 8 items proposed for corresting the existing conditions were discussed and tentatively approved until further study by the Board of Environmental Control is made.

Kr. Galley indicated that the clay seal of the proposed ramp will be impervious to rainfall, hence the water will run off instead of being absorbed into the ground on the site.

Further study and field examination of the site shows that the surface water flows Southerly. This means that any surface water draining off the U.S. Scrap Corporation property must be free from any objectionable liquid waste so this natural drainage is not contaminated.

The proposed design shows a ditch around the perimeter of the ramp which drains into a sump 8 feet long by 4 feet wide by 3 feet deep with provision for pumping the liquid from the sump thru a filter and then to the disposal process. If any liquid waste is either spilled onto the ramp surface or weeps into the ditch it will drain to the sump before flowing off the property.

Investigation made of records at Chicago City Hall disclosed a water supply line from the West extending to the old malting plant. This installation was made in 1908 under the tracks of the Illinois Central and the Chicago and Western Indiana Hailmonds.

mir ruter line was not found on the property.

rict shows a 10" sewer line flowing Southerly to the Calumet Treatment Plant. In as much as this line was installed prior to the construction of the existing Treatment Plant it is possible that this line has been destroyed. If the line can be located it is recommended that a careful tracing and testing be made before it is used.

Measurements taken at the site since the meeting of March 13, 1972 shows a more extensive use of property to the Morth of that as shown on the "Site Location" drawing. A new plat for the entire operation will be presented in the Progress Report due on May 16, 1972.

The construction of the entrance road will stress the necessity of a dike paralleling the East ditch of the road, so as to prevent any spillage on the road surface from draining onto neighbors property. The East ditch will drain thru a culvert to the West ditch.

Working drawings are now being made and will be presented in the progress Report due May 16, 1972.

Respectfully submitted,

H.C.Porter, Engineer 1210 Brassie Ave. Flosamoor, Illinois 60422

Telephone 798 0271

CITY OF CHICAGO DEPARTMENT OF ENVIRONMENTAL CONTROL ENGINEERING SERVICES

MEMORANDUM

TO: H. W. Poston, Commissioner

FROM: D. B. Galloy, Assistant Director Engineering

DATE: December 5, 1974

SUBJECT: U. S. Scrop Corp.

On Tuesday, December 3, 1974, the City of Chicago intervened as "friend of the court" and at this time the Corporation Counsel requested that the judge place the disposition of the abatement in the hands of the interested parties engineers. This was so approved by Judge Morrissey.

Counsels for Metropolitan Sanitary District, U. S. Scrop and City of Chicago along with Mr. Gallay and other members of Metropolitan Sanitary District engineering staff agreed to a macing to be held in the Department of Environmental Control office on Thursday, December 3, 1974. Mr. Martel Fresident of U. S. Scrop and his engineer were to be in attendance. It was further agreed that this meeting will be oftended by engineering personnel only.

It was to be determined if an abatement program to alleviate the problem could be egreed to in principal and reported back to the court on Friday, December 6, 1974.

At 9:30 a.m. today a meeting was held in the office of the Department of Environmental Control.

It was agreed to in principal that U. S. Scrap Corp. will excavate a properly designed mench along their cost property line including their cost property line including their cost property for an elevation. The depth of this trench will be determined by burings to bring it to an elevation below the clay line as indicated by U. S. Scrap's engineer.

Mr. Gallay will secure permission from Penn Central for U. S. Sarap's use of the previously leased land for ingress and egress.

Monitoring wells, collection points or settling chambers will be constructed satisfy this dischifer the accumulation of leachate to be disposed of by U.S. Scrap Corp. in compliance with all ordinances.

The Removing Composite super-saturated debris will then commence on a quantity agreed to per day basis to a point where an ultimate clay seal will be placed over the area.

Drainage will then be collected at a separate point of collection at which time this rain water and surface run off could be discharged with proper approval of the Metropolitan Sanitary District by Culvert into the Metropolitan Sanitary District's ditch.

हैं है है है है कि बार्टि known as Garvey Grain site, material will be removed from क्रिक्ट कार्टिक कार्य District's fenced in area approximately 10 feet back and the sparces of leaching thru ground infiltration will be checked and sealed.

Analysis of the liquid in the basement of the grain elevator will be made available by histopolitan Sanitary District and removed if the contents contains excess amounts of hexane solubles. It is U.S. Scrap's contention that the last fire burned off all solvents and petroleum products and only ground water remains in basement.

The Department of Environmental Control will meet on December 12, 1974, with U. S. Scrap's Engineer to go over preliminary plans and time schedules. The final plan and time schedule will be completed on December 16, 1974, at which time an order can be issued. Final engineering drawings and work schedule will be submitted in 30 days.

The meeting adjourned at 11:30, all parties were in agreement.

EMENT INVESTIGATION

IWC FIELD OPERATION SPECIAL INVESTIGATION

Subject of Investigation:

Date of Investigation:

U.S. SCRAP CORP.

June 30, 1975

391 East Kensington Avenue Chicago, Illinois

Originated by: Main Office	Person	Date	<u>Time</u>
Trt. Plant O Clean Streams O	J. Dencek	6-27-75	3:50PM
Other			
Type of Complaint:			
Waterway Sewer Other O			
Lake Calumet 27			
Supervisor Assigned:	Water Sampler	<u>'s:</u>	
J. Corcoran C. Meyers			
Sample 8 Eight Photographs O	Additional Information	Attached O	

INVESTIGATION: per verbal instruction of Mr. J. Dencek; make an inspection, 6-30-75 at U.S. Scrap Corp.

Inspection today at subject company; also, property used by U.S. Scrap at Garvey Elevator site.

There was no evidence of any work being done by any U.S. Scrap personnel today regarding clean up. Also, there was no activity of operations at the above locations.

Grab samples for all parameters, waterway criteria were taken at station #2 and station #8. See attached log sheets for field sampling data. The samples were sealed, tagged and coded 27 and delivered to the South Trailer for transport to the M.S.D. Main Lab for analysis.

CM/re

OPERATION - SPECIAL IN ζωω Subject of Investigation: Date of Investigation: U.S. SCRAP CORP. Nov 4, 1974 391 East Kensington Chicago, Illinois 60628 Mr. R. Baich, Supr. 928-2300 Person Date Time Originated by: Main Office Clean Streams Trt. Plant S. Whitebloom 10-24-74 verbal Local Authority Other Type of Complaint: Waterway (xxx) Sewer (x)k Other (Lake Calumet/M.S.D. Ditch Water Samplers: Supervisor Assigned: J. Corcoran C. Meyers Sample (xx None Photographs Additional Information Attached INVESTIGATION: BOARD ORDER of June 20, 1974, compliance date, July 28, 1974 Follow-up inspection of Mr. S. Whitebloom's verbal instructions of 10-24-74 regarding cleanup and no operations at U.S. Scrap receiving of any liquid wastes. Contacted Mr. R. Baich, Supervisor for U.S. Scrap. Inspection at U.S. Scrap today, Mr. Baich provided the following information: The company is filling in the pond located at the southeast corner of their property. Station #1. No runoff from U.S. Scrap to M.S.D. property. Station #2. No oil leaching to the M.S.D. east ditch; no samples were taken. Runoff from the area of Garvey Grain Elevators to the south slough had subsided. But, will

be a problem if rains occur.

The inspection at 130th street showed no flow from the south slough to the storm drainage ditch.

There were no U.S. Scrap personnel cleaning out the M.S.D. east ditch.

CM/re

SPECIAL ANALYSIS REPORT

	-		• •	Ďate S	ubmit	ted_6/	16/80		
Sample	No.	8118		Date S	ample	a · 6/1	12/80 ·		5
Source		IW				11y/Tu]		-	,
				_					
Sample	Iden	tification	n V.S.	Scrap (Corp.		÷	•	<i>5</i> ·
				. 123rd	St.				
			Garve;	y Ele va	tor-S	outh		`	
							**.		
						·			
Analysi	.s Re	quested	· ·		V	alue			~ •
P.C.F		, .			14.0	0 ug/L			
			(A:	roclors	1016	ad1254	identifi	ed)	
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カッコッとナ	's C	omments	see 8115	. •					
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	/						ZS:1 Ka	1011 23	1880
			١ .				E DIV.	•	

SPECIAL ANALYSIS REPORT

	Date Submitted 5/16/80
Sample No. 8115	Date Sampled6/11/80
Source IW	Sampler Tully/Sustich
Sample IdentificationU.	S. Scrap Corp
L00 E. 125th St.	Point 8A 1115am
	**
Analysis Requested	Value
PCB	total PCB 4.66 mg/L
	(Aroclors 1016 & 1254 identified)
<u> </u>	
Analyst's Comments Extract	ed by steam distillation, GPC and
	ysis by gas chromatography
	
Analyst MSly :0	9H3 1H9 = 0 6/20/80
	310 K40 TTM
•	:1 H9 83 PUL 23 PM 1:
٧.	IND. WASTE D

SPECIAL ANALYSIS REPORT

			• •	Date	Submitte	a 6/16/80		
Sample	No.	8116		Date	Sampled	6/15/80		
Source		IM .				ly/Sustich		
			·					
S ample	Iden	tification	U. S.	Scrap	Corp			
			400 E.	125th	St.			
(arve	Elevator -	Middle					
<u></u>								
		_						
Analysi	is Red	quested			Valı	ıe		
PO					49.9 u			
•			(Aroclor	1016		identified)		
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Analyst	·	1/00 800		W. BIS	hage T=0\5 . Trib =10	0/80		
			25	:1 84	1980 JUN 23			

IND. WASTE DIV.

SPECIAL ANALYSIS REPORT

		• •	Date Sub	mitted_6/	16/80	·
Sample No.	8117		Date Sam	pled . 6	/12/80	```
Source	IA .		Sampler	Kelly/Tu	11 y	
			•			<u> </u>
Sample Ide	entification	U. S.	Scrap Cor	p		
-		400 Е.	123rd St	•		
		Garvey	Ele vator	- Middle		•
					**	
Analysis F	Reques ted	-		Value 15.1 ug/L		
	· · ·		(Aroclo	rs 1016 an		ntifidd)
						
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<u> </u>				V.		· · · · · · · · · · · · · · · · · · ·
						
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Analyst's	Comments	see 811	5		:	
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Analyst	Dh Shu	. : .	Date	≥ <u>6/20/80</u>	. <u>018T.</u> CHGO.	MET. SA.) OF GRT.
	1	•				1990 7031 53
				1	TE DIV.	SAW . GMI

HIFER OFFICE MEMORANDUM

GREATER CHICAGO

DEPARTMENT:

M&O, CALUMET STW

DATE: April 10, 1973

TO:

Richard R. Murphy, Assistant Chief Engineer

FROM:

Edward P. Pytel. E.T.P.O. I

SUBJECT

U. S. Scrap, Corporation

This writer has reviewed the file on U. S. Scrap Corporation and for record, has taken the attached set of photographs on March 22, 1973. There are several important points of interest which I would like to call to your attention.

- By memorandum dated April 14, 1972 to Mr. Bart T. Lynam, 1) then Chief of Maintenance & Operations, it was requested that the U. S. Scrap Corporation cease and desist any further operation or other liquid waste disposal operation and, among other things, to remove contaminated soil from the Sanitary District property. By certified letter dated April 21, 1972, to U. S. Scrap Corporation, from Mr. Bart Lynam, they were authorized to enter upon the premises of the Calumet Sewage Treatment Works for cleaning up said liquid waste material. This cleanup work was "to be performed, will be performed at the direction and satisfaction of Mr. Murphy or his appointed designee. The only work that has been performed to date has been a partial pushing of material along the fence of our mutual property line toward the north edge of our property. There apparently has been no removal of the contaminated area.
- 2) The conversations with Mr. Head of U. S. Scrap Corporation have indicated that this company is now in possession of the grain elevator along the eastern edge of the Calumet S.T.W. property. As indicated on the attached photographs, it appears that they are embarking on a similar type of liquid waste disposal. This appears in the form of clay dikes with brick bat material, a multitude of empty cil drums and scrap truck trailers and truck-tankers. It is noted on the photographs there was damage to the fence along the Sanitary District property, as well as a building of dike against the fabric which may damage the fence in the future.

3) Of considerable importance is the exceedingly poor condition of the sheet metal building immediately adjacent to the Sanitary District property. There have been occasions where some of this material has fallen off the building and has been blown on Sanitary District property. Needless to say, if this occurred while Sanitary District employees were in that area on their way to and from the northern edge of the lagoons, there exists the possibility of an unfortunate accident.

It is requested that these photographs, with their description, be forwarded for consideration of action by the Law Department.

Edward P. Potel, Engineer, Treatment Plant Operations I

EPP:gs Att.

wc FIEI OPERATION investigation: Scrap Corp. 391 East Kensington Chicago, Illinois 60628	- SPECIAL INVESTIGENFORCE ENTIDAte of Investigation Oct 29, 1974 Mr. R. Babich, Supresser 928-2300	ATION INVESTIGATE On:	
Originated by: Main Office Clean Streams Other Local Authority Type of Complaint: Waterway Sewer Streams Other Other	Person S. Whitebloom	- <u>Date</u> 10-24-74	Time Verbal
Lake Calumet/M.S.D. Ditch Supervisor Assigned: J. Corcoran C. Meyers	Water Samplers:		
INVESTIGATION: BOARD ORDER of June 2 Follwo-up inspection of Mr. S. Whitebloom's and no operations at U.S. Scrap receiving any	vebal instructions of 10-2	, July 28, 19	
Contacted Mr. R. Babich, Supervisor, U.S. S Station #1 was checked; there was no flow. Station #2. Leaching from the west bank of U. grab sample for hexane solubles analysis, san log sheets for sampling data.	S. Scrap to the M.S.D.		
There was no dumping of drums at the time of	-		•
One phot attached showing one flat bed loaded vattached showing a loaded tank truck with acid Babich. Also, the aforementioned vehicles we of the above activity.	water. The above inform	nation provid	led by Mr.
There was no activity in the area of the Garvey	y Grain Elevator.		
No U.S. Scrap personnel were removing oil fr	J. Corcoran, PCC	n.	
	C. Meyers, PCO	Y	

OPERATION -IWC FIEL LINT INVESTIGATION Date of investigation; Sww. Subject of Investigation: U.S. Scrap Corp. Oct 30, 1974 391 East Kensington Chicago, Illinois 60628 Mr. R. Babich, Supr 928-2300 Person Date Time Originated by: Main Office S. Whitebloom 10-24-74 Verbal Clean Streams Trt. Plant Local Authority Other Type of Complaint: Waterway 🖾 Sewer (xxx Other () Lake Calumet/M.S.D. Ditch Water Samplers: Supervisor Assigned: J. Corcoran . C. Meyers

Additional Information Attached

INVESTIGATION: BOARD ORDER of June 20, 1974, compliance date, July 28, 1974.

Photographs

Follow-up inspection of Mr. S. Whitebloom's verbal instructions of 10-24-74, regarding cleanup and no operations at U.S. Scrap regarding receipts of liquid wastes.

Contacted Mr. R. Babich, Supervisor, U.S. Scrap. Inspection conducted with Mr. Babich.

There was no dumping of liquid wastes, at the time of this inspection. The flat bed of full drums was still on the premisses. The tanker of acid water was still on the property. A bulldozer was working in the area of the south yard filling a pond; also levelling off the property. One photo attached; green leaching from U.S. Scrap property to M.S.D. property; station #7. Showed Mr. Babich where a pond of green colored material was leaching and entering the property of the M.S.D. Grab samples for sanitary sewer criteria were taken for the following parameters: one-half gallon - cyanide, one quart - hexane solubles, eight ounce - trace metals, and eight ounce - pH analysis. Sampling location marked on sketch as station #7. Samples delivered to the south trailer for transport to the M.S.D.Main Lab. Inspection continued without Mr. Babich. One photo attached; showing man cleaning out tank truck, spilling liquid contents to the ground of U.S. Scrap property.

Station #1. No runoff from U.S. Scrap to M.S.D. property.

Station #2. No oil leaching to M.S.D. east ditch. No samples taken.

The M.S.D. east ditch was flowing through the broken clay dike at the sand bags. The M.S.D. east ditch flow onto U.S. Scrap property was reaching the slough, then to the large south slough and at this inspection, had not reached the storm drainage ditch on 130th street. The water in the M.S.D. east ditch has been lowered about eight inches. This makes it practically impossible of the return of the water re-entering the Calumet Treatment plant. There were personnel from the M.S.D. filling sand bags and were going to dike the east ditch with another dike, about thirty to forty feet downstream from the present sand bags. Sketch attached.

CM/re

Sample

Four

/Corcoran, PCO II

C. Meyers, PCO I

SPECIAL INVESTIGATION 4631 F. Ra C >O/Complainant,

SPECIAL INVESTIGATION IWC FIELD OPERATION -

Subject of Investigation:

Date of Investigation:

U.S. SCRAP 400 · East 123rd Street

Chicago, Illinois

May 30, 31, June 4, 5, 1973

Originated by: Main Office	Person	Date	Time
Trt. Plant C Clean Streams	F. Rado, TPO III	5-30-73	9:30 AM
Other Cocal Authority			
Type of Complaint:			
Waterway Osewer Sewer Sewer Other		<u> </u>	<u> </u>
Supernatant - Return Line - Calumet Tream	ent Plant.		
Supervisor Assigned:	Water Samplers:		•
J. Corcoran	R. Earsley	. • •,	-
C. Meyers A. Ruf			
Sample (6) Sixteen Photographs	Additional Information Att	tached O	4

SPECIAL INVESTIGATION #4631. Complainant Mr. F. Rado, Calumet INVESTIGATION: TPO III. Compalaint: Runoff from U.S. SCRAP property entering 12 inch supernatant draw-off line from sludge lagoons, #'s 1, 2, 3, 4, and returning with influent entering main intake of Calumet Treatment Plant.

Investigation with Mr. Rado this morning at 9:40 A.M. Began on the roadway East of the sludge lagoons. Mr. Rado requested photo's of his man obtaining two (2) one gallon are samples of the runoff water entering the sewer East of the sludge lagoons. One (1) photo of the runoff water crossing the roadway and entering the ditch along the West side of the roadway. Photo given to Mr. Rado which he will include in his report.

Investigation continued by I.W.C. section. Grab samples for all parameters sanitary sewer criteria were taken as the runoff water entered the 12 inch draw-off line of sewer. The samples appeared cloudy-red with visible oil and heavy sediment. The samples were submitted to the M.S.D. Southwest Lab for analaysis.

Three (3) photos of runoff and location of runoff entering sou

The entire West end and West of the C. & E.I. R.R. tracks were checked for possible runoff from U.S. Scrap and discharge to a waterway or sewer from U.S. Scrap; none was found.

Grab samples obtained for all parameters sanitary sewer criteria were taken May 31, June 4, June 5, 1973. The samples appeared dirty-brown with heavy sediment and visable oil. All samples were delivered to the M.S.D. Southwest Lab for analysis.

Inspection on U.S. SCRAP property on May 31, 1973. The company was dumping drums of industrial waste sludge into a steel tank. The material was drained into two (2) underground 7,000 gallon storage tanks for further disposal to overhead tanks. Then to tanker trucks to be disposed of in Indiana; information provided by Mr. Earl Klepser, Operator Supervisor of U.S. SCRAP. Mr. Klepper was told of the runoff and he stated he would have the dykes

Page 2 of 2 pages

U.S. SCRAP Runoff Onto M.S.D. Property

May 3, 31, June 4, 5, 1973

around the East and South of the property reinforced to prevent any further runoff.

From visible inspection, the company has a serious leeching problem encompassing the entire Southeast corner of their property. During rainfall runoff will definitly be a problem to the M.S.D. property.

CM/re

THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO INDUSTRIAL WASTE ANALYSIS

JUN 1 5 1973"

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SCHARG YS RUN															123rd Street Illinois		ss _	DDRE
		AS	AS	i	ROG				IDS			·	. W		•		3	19 7
	PHENOL (mg/1)	FREE CYANIDE CN T	TOTAL CYANIDE A CN-	NITRITE+ NITRATE AS N	FREE AMMONIA AS N	TOTAL AS N	DISSOLVED SOLIDS	VOL ATILE SUSPENDED	TOTAL SUSPENDED	TOTAL	BOD /	COD	HEXANE	рΗ	LAB. No.	SAMPLER	TIME	DATE
	NR	NR	į		ested		Not	228	1124		NR	NR	1.7	7.1	1642	Meyers Ruf	10:30 a.m. 8:45	5/30
 	NR	NR	1			Requ	Not	1528	7252	NR	3893	NR		7.5	1644	Ears1ey	a.m. 8:45	5/31
 -	NR	NR	.114			Requ	Not:		784	NR	3360	NR	40	6.7	1777	11	9:05	6/4
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THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO

RESEARCH AND CONTROL	LABORATORY	ATOMIC	ABSORPTION	METALS	REPOR

SAMPLE COLLECTION DATA:	INDUSTRIAL WASTE	ANALYSIS DATA:
SOURCE U. S. SCRAP CO.	SEWERS	RESULTS EXPRESSED IN
		(milligrams per liter)

LOCATION 400 East 123rd N.S.= no sample As Indicated PERIOD_

Grab as indicated TYPE_

N.A.= no analysis

Ε	ALLOWABLE DISCHARGE LIMIT	rs	15.0	2,0	3.0	25.0	10.0	50.0	10.0	0.5	1.0	0.5				01
LAB. NO.	DESCRIPTION	A.A. NO.	Zn	Cd	Cu	Total Cr	Hexa- valent Cr	Fe	Ni	РЬ	Se	# Hg				V
1642	10:30 a.m. Meyers 5/30	3315	4.6	0.02	0.09	0.12		100	0.4	0.14	0	0.2				
1644	8:45 a.m. Earsley 5/31	3316	27.2	0.13	2.50	1.34		440	0.7	13.0	0	10.7				
17 77	8:45 a.m. Ruf 6/4	3399		0.01	0.07	0.16		193	0.7	0.21	0	0.2				
1834	9:05 a.m. Ruf 5/5	3444	8.4	0.30	0.16	0.34		214	0.7	1.96	0	0.6				
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★ Reported in μg./1. (Microgram	ns per liter)		Date: <u>JUN 2 1 1973</u>
Date: June 21, 1973	Analyst: C.	Arne Arenberg	Supervising Chemist: MMCClercu
		;	hue.

THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO

EPORT

. •	RESEARCH A	ND CONTROL	LABORATORY	ATOMIC ABSORPTION	METALS	REPORT
SAMPLE CO	LLECTION DATA:	,	INDUSTRI	AL WASTE	A	NALYSIS DATA:
SOURCE	U. S. SCRAP CO.	<u> </u>	SE	WERS	1 -	ESULTS EXPRE
LOCATION	400 East 123rd				(1	milligrams per lit

LTS EXPRESSED IN mg./1.4

grams per liter)

N.S.= no sample N.A. = no analysis

Grab as indicated TYPE

As Indicated

LOCATION

PERIOD.

D	ALLOWABLE DISCHARGE LIMIT	'S	15.0	2.0	3.0	25.0	10.0	50.0	10.0	0.5	1.0	0,5				
LAB. NO.	DESCRIPTION	A.A. NO.	Zn	Cđ	Cu	Total Cr	Hexa- valent Cr	Fe	Ni	Pb	Se	# Hg			-	
1642	Rerun	3315						101								
1644	11	3316	27.0	·				440		12.9		10.0				
1777	11	. 3399	·					192		·						
1834	11	3444						217		1.94						
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₩ Reported in μg./1. (Micrograms per liter)

Date: June 21, 1973

Analyst: C. Arne Arenberg

Supervising Chemist: MMiCConne

NO

Rev. 5/16/72

THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO INDUSTRIAL WASTE ANALYSIS

JUN 1 4 1973

	` <u>-</u>	CALUMET SCRAP						_ SAN _ CON _ GRA	POS	TE_	_SAI	VITAR							
19	73		-		S			SOL	IDS			i	ROG		AS	AS			
DATE	TIME	SAMPLER	LAB. No.	рΗ	HEXANE SOLUBLE	COD	BOD	TOTAL	TOTAL	VOL ATILE SUSPENDED	DISSOLVED	TOTAL AS N	FREE AMMONIA AS N	NITRITE+ NITRATE AS N	TOTAL CYANIDE A	FREE CYANIDE /	PHENOL (19/1)		
			1594					Not		este	[.104		NR		
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	Metals Analys	s are in mg/l. Attachedes as Request		рН а	nd w	here	indico	ted				Аррі	roved	W.	<i>M)</i> _ Su	<i>LL</i> pervi	Berling (Chem	ist.

•	RESEARCH	ANU	CONTROL	LABURATURT	AIUMIC	ADSUKE	IIUN	MEIALS	תבר
SAMPLE COLLECTION	ON DATA:		•	INDUSTR	IAL WAST	E,		· AN	IALYSI

S DATA:

SOURCE	CALUMET	SCRAP	METAL	

SEWERS

RESULTS EXPRESSED IN mg./1. (milligrams per liter)

LOCATION Leaching on to Cal. Prop.

PERIOD____5/30/79

N.S.= no sample N.A.= no analysis

TYPE ____ Grab

	ALLOWABLE DISCHARGE LIMIT	rs	15.0	2.0	3.0	25.0	10.0	50.0	10.0	0.5	1.0	0.5					
LAB. NO.	DESCRIPTION	A.A. NO.	Zn	Cd	Cu	Total Cr	Hexa- valent Cr	Fe	Ni	Pb	Se	# Hg					
1594	5/30/73	3285	6.6	0	0.15	0.13		108	0.6	0.16	0	0.3					
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水 Rep	orted in µg./1. (Mi	crogram	s per li	ter)					÷		. 1	Date:	JU	V 2 0 1	973		

Data: June 20, 1973

Analyst:_

C. Arne Arenberg

Supervising Chemist: M. Mile Office van

THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO

RESEARCH AND CONTROL LABORATORY ATOMIC ABSORPTION METALS REPORT

SAMPI F	COLL	FCTION	DATA .

INDUSTRIAL WASTE

ANALYSIS DATA:

SOURCE CALUMET SCRAP METAL	SEWERS	RESULTS EXPRESSED IN ing., (milligrams per liter)
LOCATION Leaching on to Cal. Prop.		timingroms per meri
PERIOD5/30/73		N.S.= no sample

TYPE_ Grab N.S.= no sample N.A.= no analysis

	ALLOWABLE DISCHARGE LIMIT	rs	15.0	2,0	3.0	25.0	10.0	50.0	10.0	0.5	1.0	0,5	·					5
LAB. NO.	DESCRIPTION	A.A. NO.	Zn	Cd	Cu	Total Cr	Hexa- valent Cr	Fe	Ni	Pb	Se	# Hg			·			
1594	Rerun	3285				• ·		108		,								
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·																		

Supervising Chemist: M. Milliber,

Date: June 20, 1973

₩ Reported in µg./1. (Micrograms per liter)

Analyst: C. Arne Arenberg

BOARD O- ER ENFORCEMENT INVESTIGATION I W C FIELD OPERATION - SPECIAL INVESTIGATION

Subject of Investigation:	Date of Investigation:
U.S. SCRAP CORP. 391 East Kensington Avenue Chicago, Illinois	Aug 14, 1974 Situation backers, 928-2300 Rame for ang. 8, 9, 12,
Originated by: Main Office Trt. Plant Clean Streams Cher Local Authority Type of Complaint: Waterway Sewer Complaint: Lake Calumet/M.S.D. Ditch Supervisor Assigned:	Person Milled Moster Time J. Dencek 7.29-74 8:00AN Water Samplers:
J. Cororan A. Boehme	
Sample 5 Five Photographs	Additional Information Attached
at M.S.D. east property line. 10:00 A.M. A grab sample was obtained of the ditch for hexane solubles analysis. Sampling Sand bags were checked in east ditch that M.S entering the sewage treatment plant facilities.	.D. constructed to prevent oily discharge from Due to this construction, the flow was routed by line. The slough has an outlet to a waterway erway at time of this inspection; sunny, dry
Rusty-brown material with an oily film was le road at west property line. The discharge eve 10:20 A.M., grab samples were obtained of the property. Samples were obtained for hexane sanitary sewer criteria analysis. Samples we identified as station #1.	entually enters Calumet Treatment Works. At me leachate as it was discharging onto M.S.D.
The weather was dry and sunny during this ins	pection and sampling.
Company had no personnel removing the oil fr that would eliminate the leachate from enterin	
All samples were transproted daily to M.S.D.	Main Lab for analysis.
AB/re	G Brehme A. Boehme, PCO I

1. April 14, 1972

Bart Lynam, then Chief of Maintenance and Operations, requested that U. S. Scrap cease and desist from liquid waste disposal and remove contaminated soil from MSD lands.

2. April 21, 1972

Lynam notified U. S. Scrap that it was authorized to enter upon District property to clean up its waste (very little work was performed).

3. May 12, 1972

Industrial Waste issued Notice of Violation 72-255 to U. S. Scrap for discharging effluents with excessive concentrations of hexane, zinc, total chromium, iron, lead and mercury. Conciliation meetings were held June 26, 1972, July 25, 1972, October 6, 1972 and October 24, 1972.

4. June 26, 1973

A second Notice of Violation 72-255 was issued to U. S. Scrap.

5. May 10, 1973

Demand was made on U. S. Scrap to clean up its damage to District property

6. May 17, 1973

Inspection of property made -- minor repairs undertaken by U. S. Scrap.

7. May 19, 1973

Letter from U. S. Scrap's Counsel stating that it will remedy the problems at the Calumet Sewage Treatment Works.

8. June 7, 1973

Board of Trustee's authorized U. S. Scrap to enter upon our premises to clean up its contamination. Permit was issued for August 1 through August 29, 1973.

9. July 23, 1973

U. S. Scrap signed an agreement in a Industrial Waste conciliation meeting stating that discharge to Calumet Treatment Plant would stop by September 1, 1973.

10. <u>September 10, 1973</u>

ETPO I, Edward Pytel, stated that work under the permit was not begun until August 28 and was minimal.

11. September 24, 1973

Law Department requested appraisal of cost of restoration of land so that we could repair and sue for cost.

12. October 29, 1973

Appraisal of repair received. Appraisal is approximately \$172,000.00

13. December 10, 1973

Demand made on U. S. Scrap to clean up premises.

14. January 14, 1974

Counsel for U. S. Scrap assured District that it would remedy the situation.

15. January 28, 1974

U. S. Scrap again authorized to enter District lands for purposes of cleaning up same.

16. March 12, 1974

Investigation of the subject premises revealed violation of the District Sewage and Waste Control Ordinance.

17. March 27, 1974

Recommendation for Show Cause for violation of the District's Sewage & Waste Control Ordinance.

18. April 16 and April 30, 1974

Show Cause Hearing held and a compliance date of May 24, 1974 recommended by the Hearing Officer.

19. June 20, 1974

Counsel for U. S. Scrap appeared before the Board of Trustee's and recommended extension of the compliance date to July 28, 1974. Said request was granted.

20. 12 dates in July and August, 1974

The U. S. Scrap was sampled and violations of the District's Sewage and Waste Control Ordinance were found.

21. <u>September 20, 1974</u>

Recommendation for Law Suite.

22. October 3, 1974

Law Suit filed.

IWC FIET OPERATION - SPECIAL IN STIGATION

U.S. SCRAP CORP.			
	Nov 1, 1974		
391 East Kensington Chicago, Illinois 60628	Mr. R. Babich, Supr.		
	928-2300		
Originated by: Main Office	Person	-Date	Time
Trt. Plant Clean Streams C	S. Whitebloom	10-24-74	Verbal
Other Complaint		1	
Type of Complaint: Waterway Sewer X Other			
Waterway Sewer & Other Lake Calumet/M.S.D. Ditch	*		
Supervisor Assigned:	Water Samplers:		
J. Corcoram C. Meyers		Territoria	·.
Sample None Photographs	Additional Information A	ttached ()	
			•
Contacted Mr. R. Babich, Supervisor for Babich provided the following information: The company is pumping from the ponds to		_	_ •
		_	- ⁻ '
Babich provided the following information: The company is pumping from the ponds to	tank trucks and are haulin	_	<u>-</u> *`
Babich provided the following information: The company is pumping from the ponds to Landfill.	o tank trucks and are hauling out this afternoon.	g the mater	_ •
Babich provided the following information: The company is pumping from the ponds to Landfill. The flat bed of drums will be transferred of	o tank trucks and are hauling out this afternoon.	g the mater	- * ·
Babich provided the following information: The company is pumping from the ponds to Landfill. The flat bed of drums will be transferred of All leveling and clean up operations to be	o tank trucks and are hauling out this afternoon.	g the mater	<u>-</u> *`
Babich provided the following information: The company is pumping from the ponds to Landfill. The flat bed of drums will be transferred of All leveling and clean up operations to be of Inspection continued without Mr. Babich.	o tank trucks and are hauling out this afternoon. completed by November 8,	g the mater	- ⁻ '
Babich provided the following information: The company is pumping from the ponds to Landfill. The flat bed of drums will be transferred of All leveling and clean up operations to be of Inspection continued without Mr. Babich. Station #1. No runoff from U.S. Scrap pro-	o tank trucks and are hauling out this afternoon. completed by November 8, operty to M.S.D. property. east ditch. No samples tal	g the mater	_ • ·
Babich provided the following information: The company is pumping from the ponds to Landfill. The flat bed of drums will be transferred of All leveling and clean up operations to be of Inspection continued without Mr. Babich. Station #1. No runoff from U.S. Scrap profitation #2. No oil leaching to the M.S.D.	o tank trucks and are hauling out this afternoon. completed by November 8, operty to M.S.D. property. east ditch. No samples tal	g the material of the material	<u>-</u> *`

IWC FIEF OPERATION - SPECIAL IN STIGATION INVESTIGATION Subject of investigation: Date of Investigation: Oct 28, 1974 U.S. SCRAP CORP. 391 East Kensington Chicego, Illianis 60628 Mr. R. Babich, Supr. 928-2300 Person Date Time Originated by: Main Office S. Whitebloom 10-24-74 Verbal Clean Streams Trt. Plant Local Authority Other Type of Complaint: Waterway (x) Sewer (xx) Lake Calumet/M.S.D. Ditch Water Samplers: Supervisor Assigned: J. Corcoran C. Meyers Photographs (2) Two Additional Information Attached Sample (x) None BOAR & CRDER of June 20, 1974, compliance date, July 28, 1974 INVESTIGATION: Follow-up inspection of Mr. S. Whitebloom's verbal instructions of 10-24-74, regarding cleanup and no operations at U.S. Scrap receiving of any liquid wastes. Contacted Mr. R. Babich, Supervisor, U.S. Scrap. Inspection today showed the following: The company was cleaning up the yard. One photo attached. No drums were being dumped. One photo attached showing pond, southeast corner of U.S. Scrat property. R. Babich stated, the company was b going to syphon the material and truck the liquid to Indiana. Also, fill-in the pond area with dirt fill. Activity appeared to be curtailed, as far as operations of dumping liquid wastes. No activity at the Garvey Grain Elevator area. Checked stations #1 and #2. There was no flow or leaching. There were no U.S. Scrap personnel cleaning up the M.S.D. ditch.

Meyers. FCÓ I

CM/re

BOARD ORDER EL rcement Investigation 500.0°

IWC FIELD OPERATION - SPECIAL INVESTIGATION

Subject of Investigation:

U.S. SCRAP CORP. 391 East Kensington Chicago, Illinois 60628

Date of investigation:

Nov 8, 1974 Nov 12, 1974

Mr. R. Baich, Supervisor 928-2300

Originated by:	Main Office		Person	Date	Time
Trt. Plant	Clean Streams	s.	Whitebloom	10-24-74	Verbal
Other O	Local Authority		•		
Type of Complain	nt:	: •			-
Waterway	Sewer O Other C) _			
Lake Calumet/M	.S.D. Ditch				
Supervisor Assi	gned:		Water Samplers:		
J. Corcoran				.	
C. Meyers					•
Sample 🔿	Four Photographs	0	Additional Information	Attached O	
INVESTIGATION	J. BOARD ORDER of	Tuna 20	1974, extended; compli	omeo deta Tul	20 1074
1144 LB 11071 1101	. Donne on bear or	June 20,	1714, extended; compil	ance date, Jul	y 28, 1974

Daily follow-up inspection per verbal instructions of Mr. S. Whitebloom regarding clean up of property; also, to verify the company is not receiving any liquid wastes.

Inspection today, the following was noted: stations #1 and #2 were not flowing; no samples taken.

Company had men cleaning up and filling in pond on their property. A flow from the north slough to the south slough was not reaching the storm drainage ditch on 130th street.

Follow-up inspection November 12, 1974. The south slough had been diked off with an earthen dike. No grab samples were taken today.

There was some clean up activity being done by U.S. Scrap at 123rd street, Cottage Grove Avenue, filling in a pond.

Two flat bed trailers loaded with full drums of liquid wastes.

There was no dumping of liquid wastes at the time of this inspection.

CM/re

ENFORC. LENT INVESTIGATION

IWC FIELD OPERATION - SPECIAL INVESTIGATION

Subject of Investigation:

U.S. SCRAP CORP.
391 South Kensington Avenue
Chicago, Illinois

Date of Investigation:

Oct 26, 1976

Mr. S. Martel, Owner

Originated by: Main Office	Person	Date	<u>Time</u>
Trt. Plant O Clean Streams O	J. Dencek	10-25-76	3:00PM
Other Cocal Authority			
Type of Complaint:		 	
Waterway & Sewer & Other			
Drainage Ditch to Lake Calumet	<u> </u>		
Runoff to M.S.D. Calumet T.P. Supervisor Assigned:	Water Samplers:	£.	
J. Corcoran	•	•	,
			•'
Sample None Photographs	Additional Information At	tached O	

INVESTIGATION: Court Inspection by M.S.D. Attorney, M. Rosenberg

An inspection was conducted for progress of cleanup to be reported to the Court by M.S.D. Attorney, M. Rosenberg.

The inspection was made by M.S.D. Attorney, M. Rosenberg, N. Venuso, PCO III and the writer.

A substantial amount of the oily liquid waste has been removed from the trench by the company by use of tank trucks with vacuum hose and delivered to Indiana for disposal. The trench has a free-board of about two feet at time of this inspection.

The dyke along the company east property line that abuts M.S.D. property, has been improved in an effort to eliminate runoff to M.S.D. property.

Company has removed a substatial amount of debris from their property. Company has a long way to go before the debris removal is acceptable.

While making this inspection, Mr. Martel, Owner of the company, arrived at the site. He explained to the M.S.D. Attorney, M. Rosenberg, that he is hopeful that the case can be dismissed in court, when it comes up before the judge on October 27, 1976. If the case is dismissed, he will have more funds to spend for the purpose of removing the debris, instead of spending his funds for attorney fees. He is hopeful that when he removes all the debris, he will be able to operate or sell the incinerator that is on this site.

JC/re

J. Gorcoran, PCO II

INDUSTRIAL WASTE CONTROL

CASE DISPOSITION

CASE DISFO	
1/5 (60) = 6	Date 10-26.76
Company U.S SCRAP Co. Location 391 S. KENSING	Rg.
	Compliance Date
(★) Sanitary Sewer	(X) Waterway LAKE CALUMET
() Manhole	() Other
FIELD INFORMATION	ENFORCEMENT DISPOSITION
(Inspection 10 - 25 - 76	() In Compliance
() Sampling	() In Violation
()	() Sanitary Sewer
Handled By: / Mrcaras	#
TYPE OF SAMPLING:	() Waterway
() Grab	#
() Composite hrs.	() Other
() Automatic	#
() Trailer Sampling	RECOMMENDED FOR:
TYPE OF STUDY:	() Show Cause
() Initial Study	() Court
() Special Investigation (4631)	(Surveillance
(x) Surveillance Sampling TNSpection	() ResampleDays
() Surcharge Sampling Court	() Grabs
() Compliance Sampling	() Composite - Auto
() Conciliation	() Formal Study
() Show Cause	() No Further Action Necessary
(X) Court	PARAMETERS:
•	() All ()
SECTION: () North	() pH ()
() Central	() Hexane ()
(4) South	() Tr. Mtls. () °
(*) Auto Samplers	
() Surcharge	By: Xome Liber
. -	Date: <u>U 11877</u>
REMARKS:	Main Jain perweillance for from
	Maintain considere programa
	debrie.

ENFORC MENT INVESTIGATION I W C FIELD OPERATION - SPECIAL INVESTIGATION

Subject of Investigation:	Date of Investigation:							
U.S. SCRAP CORP.	Dec. 15, 1976							
391 East Kensington Chicago, Illinois	Mr. Steve Martell, Own	ier						
	785-0444	•						
Originated by: Main Office	Person	Date	<u>Time</u>					
Trt. Plant Clean Streams Cother (x) Local Authority	R. Kauffmann	11-24-76	Verbal					
Type of Complaint:	·		 					
Waterway Osewer Other			·					
Tank Truck Operations								
Supervisor Assigned:	Water Samplers:	•						
J. Corcoran	•	.						
Sample (x) None Photographs (2) To	wo Additional Information A	ttached ()						
. 9	•	<u> </u>						

INVESTIGATION: Helicopter surveillance: Photographs of several tank trucks that may be scavenger operation at 110th Place and Champlain Avenue, Chicago, Illinois.

An investigation was conducted to determine the purpose and operational schedule of the tank trucks.

Mr. Steve Martell, Owner of the U.S. Scrap Corp., 391 East Kensington Avenue, Chicago, Illinois was present during this investigation. He explained that he is the owner of the tank trucks and is leasing the property for the storage of the trucks only. All liquid wastes collected by his operation is taken to the State of Indiana for final disposal.

There were several tank trucks and fifty-five gallon steel containers stored at this site, 110th Place and Champlain Avenue, Chicago, Illinois. There were no activities at this site at this time that would indicate any discharge to the sewerage system or waterways.

Mr. Martell was informed that M.S.D. will conduct continual surveillance of his activities.

He stated that at the present time, he is on his way to see Mr. Pytel at the M.S.D. Calumet Sewage Treatment Plant in an effort to obtain a contract to haul M.S.D. sludge.

Periodic inspections will be conducted to monitor operations.

J. Carcoran, PCO II Badge

JC/re

COMP		U. S. Scrap																	
ADDR		· ·																	
19	80							so	LIDS				ROG	E N	AS	A S		.,	æ
DATE	TIME	SAMPLER	LAB. NO.	рĤ	FOG	COD	BOD	TOTAL	TOTAL	VOLATILE SUSPENDED	DISSOLVED SOLIDS	TOTAL AS N	FREE AMMONIA AS N	NITRITE+ NITRATE AS N	TOTAL CYANIDE A	FREE CYANIDE 1 CN -	PHENOL (1/61)	TOC	NON - POL / F.O.G. (%)
6/16	1430	Tully/Kelly	8154			<u> </u>				-							4553		
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TYPE_

THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO RESEARCH AND CONTROL LABORATORY ATOMIC ABSORPTION METALS REPORT

MPLE COLLECTION DATA:	 •	INDUSTRIAL	WASTE
MPLE COLLECTION DATA:		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

ANALYSIS DATA:

SOURCE	U. S. Scrap Corp.
• • • • • • • •	

WATERWAYS

RESULTS EXPRESSED IN mg /1.

(milligrams per liter)

LOCATION 400 E. 123rd Street, Chicago

PERIOD 6-16-80

*Reported in µg./1. (Micrograms per liter)

GRAB

SOUTH LAGOON

N.S.= no sample

Date: ____ June 20, 1980

Supervising Chemist:

N.A.= no analysis

D	ALLOWABLE ISCHARGE LIMIT	'S	1.0	0.15	1.0		0.3	2.0	0.5	10	0.1	1.0	0.3	0.1	1.0	2.0	0.5	
LAB. NO.	DESCRIPTION	A.A. NO.	Zn	Cd	Cn	Total Cr	Hexa - valent Cr	lr Total	on Sol.	Ni	Pb	Se	As	Ag	Mn	Ba	Hg [₩]	
8154	1430 6-16-80 Kelly	2226	66.6	0.07	0.11	3.53		4440		3.9	0.50	0	0	0	104	0	0.2	
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8154	RERUN	2226 '	66.9	0		3.55		.4440		3.8	0.52				104			
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THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO RESEARCH AND CONTROL LABORATORY ATOMIC ABSORPTION METALS REPORT

SAMPL	E COLLECTION		. , ,		·.·	•	INDU	ISTRI	ÀL W		00			ANA	LYSIS	DATA:	•
SOURCI	U. S. Scrap	Corp.	troot		CIA)		77	VATE	RWAY	S_			٠		ULTS E ligrams		SED IN mg
PERIOD TYPE	6-16-80		e e e e e e e e e e e e e e e e e e e		,	£ .			GAR	ey eli	VATOR				no samp		
·D	ALLOWABLE	rs	1.0	0.15	1.0		0.3	2.0	0.5	10	0.1	1.0	0.3	1.0	1.0	2.0	0.5
LAB.	DESCRIPTION	A.A.	Zn	Cd	Cu	Total	Hexa- valent	ir	on .	Ni	РЬ	Se	As	Ag	Mn	Ba	Hg *
NO.		NO.	211	Cu	Cu	Cr	Cr	Total	Sol.	101		36	~*	AU	Mil	DU	ny
8156	1605 6-16-80 Kelly	2227	52.2	0.05	0.13	320	-	5360		2.4	4.01	0	0	0	25.2	0	0
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8185	Rerun	2227	52.0			321		5360		2.3	4.02				25.2		
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# Rep Date:	orted in µg./1. (M	icrogra		iter) yst:		:			Su	pervisi	na Che	Date: mist: '	1)11	20/9	30 [[[]	24	



COMP	ANY _	U. S. Sci	rap Corp	<u>), </u>					SAMPL										
	-	400 East		3tree	<u>.</u>				COMPO										
ADDR	ESS _	Chicago,	IL						GRAB		!	PVT. T	RT. P	LANT.		WATE	RWAYS	RUN.	
19	80].						so	LIDS			NIT	ro G	ΕN	ď	S			œ
DATE	TIME	SAMPLER	LAB. NO.	рН	FOG	COD	BOD	TOTAL	TOTAL	VOL ATILE SUSPENDED	DISSOLVED	TOTAL AS N	FREE AMMONIA AS N	NITRITE + NITRATE AS N	TOTAL CYANIDE A CN-	FREE CYANIDE A CN-	PHENOL (µ9/1)	тос	NON-POLAR F.O.G.
6/16	1605	Tully/Kelly	8156														11*		
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COMP		U. S. Scrap																	
ADDR		400 East 12																	
19	80			,				S0	LIDS	SERI	ES	N1	TROG	ΕN	S	တ			a:
ATE	TIME	SAMPLER	LAB. NO.	рH	FOG	COD	BOD	TOTAL	TOTAL	VOL ATILE SUSPENDED	DISSOLVED	TOTAL AS N	FREE AMMONIA AS N	NITRITE + NITRATE AS N	TOTAL CYANIDE AS	FREE CYANIDE A	PHENOL (µg/1)	тос	NON-POLA
6/16	1430	Tully/Kelly	8154														4553		
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	Meta	ults are in mg/ uls Attached _ vses as Requ	·	INCO	MPLE'	re -		ETE		TS WI	LL	Αţ	prove	d M		illi ipervi		hemis	 51

THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO RESEARCH AND CONTROL LABORATORY ATOMIC ABSORPTION METALS REPORT

MOLE COLLECTION DATA		INDUSTRIAL	WASTE
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ANALYSIS DATA:

SOURCE _	U. S. Scrap Corp. 400 East 123rd Street, Chic	cago	•	WATE	RWAYS	RESULTS EXPRESSED IN mg (milligrams per liter)
PERIOD_	6-16-80	•	•		GARVEY ELEVATOR	N.S.= no sample
TYPE	GRAB					N.A.= no analysis

	ALLOWABLE DISCHARGE LIMIT	rs	1.0	0.15	1.0		0.3	2.0	0.5	10	0,1	1.0	0.3	0.1	1.0	2.0	0.5	
LAB.	DESCRIPTION	A.A.	Zn	Cd	Cu	Total	Hexa - valent	ļ	on	Ni	РЬ	So	As	Ag	Mn	Ba	.∗ Hg	
NO.		NO.				Cr	Cr	Total	Sól.									
8156	1605 6-16-80 Kelly	2227	52.2	0.05	0.13	320		5360		2.4	4.01	0	0	0_	25.2	0	0	
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8185	Rerun	2227	52.0			321		5360		2.3	4.02				25.2			
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★ Reported in µg./!. (Microgram	s per liter)		Date: 4/20/80
Date:	Analyst:	Supervising	Chemist: M' M Cl. Consu
		⊸ .	

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THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO RESEARCH AND CONTROL LABORATORY ATOMIC ABSORPTION METALS REPORT

SAMPLE COLLECTION DATA:

INDUSTRIAL WASTE

ANALYSIS DATA:

SOURCE	U.	S.	Scrap	Corp.	

WATERWAYS

RESULTS EXPRESSED IN mg/l. (milligrams per liter)

LOCATION 400 E. 123rd Street, Chicago

PERIOD 6-16-80

Date: ____ Analyst: ___

SOUTH LAGOON

N.S.= no sample N.A.= no analysis

Supervising Chemist: W. M. Cle Con

TYPE GRAB ALLOWABLE 2.0 0.5 0.3 2.0 0.5 10 0.1 1.0 0.3 0.1 1.0 1.0 0.15 1.0 DISCHARGE LIMITS Hexa -Iron Total A.A. CAB. valent DESCRIPTION Z'n Cd Cu Ni Pb Se Ag Mn Hq As Ba Cr NO. Total Sol. NO. . Cr 8154 | 1430 6-16-80 Kelly 0.2 0 0.07 4440 3.9 0.50 0 0 0 104 66.6 0.11 3.53 2226 3.8 0.52 104 66.9 3.55 4440 2226 0 8154 RERUN 深Reported in µg./1. (Micrograms per liter)

COMP	ANY	U. S. Scr	rap Cor	ρ.					SAMPL	LING	POINT		Garv	ey El	Levatr	or Sl	udge		
		400 East	123rd S	Stree	et	<u>-</u>	·		COMP	OSITE	S	ANITA	RY SE	WER.	EF/	FLUEN	T DIS	CHAR	GE X
ADDR	ESS _	Chicago,	IL		•				GRAB.	<u> </u>		PVT. 7	rt. P	LANT.		.WATE	RWAYS	RUN	
19	80 -	1	1					so	DLIDS			NI	TROGI	EN	S	ဟ			<u>«</u>
DATE		SAMPLER	LAB. NO.	рН	FOG	COD	BOD	TOTAL	TOTAL	VOL ATILE SUSPENDED	DISSOLVED	TOTAL AS N	FREE AMMONIA AS N	NITRITE + NITRATE AS N] <	<	PHENOL (µg/!)	тос	NON-POLAR F G.
6/16	1605	Tully/Kelly	8156														11*		
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	Meta	ults are in mg/ als Attached _ lyses as Reque		*Re	esult	in mo	ng/l		Comple	ete I	æsult	Ар	prove	d 1/1	2. M/Si	/ ()	sing C)ac hemis	 ;†

JUN 17 1980

COMP	ANY	u.'s. scr	/B				· · · · · · · · · · · · · · · · · · ·		SAMPL	.ĮNG F	POINT		Stati	on#8A		 -			
		400 East 1 Chicago, 1	125th Stre						COMPO	SITE.	S	ANITA	RY SE	WER_	EFF				
19	80							so	LIDS			NIT	ROG	ΕN	AS	တ္			œ
DATE	TIME	SAMPLER	LAB. NO.	рΗ	FOG	COD	BOD	TOTAL	TOTAL SUSPENDED	VOLATILE SUSPENDED	DISSOLVED SOLIDS	TOTAL AS N	FREE AMMONIA AS N	NITRITE + NITRATE AS N		FREE CYANIDE A CN-	PHENOL (µg/1)	тос	NON-POLAR F.O.G.
6/14	1115	Tully Sustich	8115		809										0.30		13*	622	
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	Meta	lts are in mg Is Attached yses as Requ		*]	pH o æsult	ind wi	nere ii	ndicat	ed		·	Ap	prove	d <u>M</u>	2. M Si	Ul ipervi	lbe sing (Shemi:	st .

THE METROPOLITAN SANITARY DISTRICT OF GREATER OFFICAGO

SAMPL	R E COLLECTIO		,	H AN	D CON	ITROL	LAE		OHY			SORPI	TION	META		REPOF			
	E <u>U. S. S</u>							ATE	RWAY	<u>S</u> .	•		,		ULTS E ligrams		SED IN mg	/ 1.
	ALLOWARI E							S	Statio	n#8A						no sam no anal			
C	ALLOWABL			1.0	0.15	1.0		0.3	2.0	0.5	10	0.1	1.0	0.3	0.1	1.0	2.0	0.5	
LAB.		. Δ	.A.	-	64	0	Total	Hexa -	Ir	OR		Pb	0.0	•				*	
NO.	DESCRIPTIO		0.	Zn	Cd	Cu	Cr	Cr	Total	Sol.	Ni	PD	Se	As	Ag	Mn	Ba	Hg	
8115	6/14/80 11: Sustich	15 218	32	1.0	0.03	0.03	0.09		9.1		0.3	0.10	0	0		1.00			
											<u> </u>		 	<u> </u>	<u> </u>	1			_

NO.	DESCRIPTION	NO.	Zn	Ca	Cu	Cr	Cr	Total	Sol.	NI	PD	50	A\$	Ag	Mn	Ra	ng	
8115	6/14/80 11:15 Sustich	2182	1.0	0.03	0.03	0.09		9.1		0.3	0.10	0	0		1.00			
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Date: June 1	-	ams per liter) Analyst:	C. Arenber	rg	_ Su	pervising C	hemist: 💯	JUN 1 7 19. V. MILLE	are	
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THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO RESEARCH AND CONTROL LABORATORY ATOMIC ABSORPTION METALS REPORT

DAMPI	_	rol I	FCTION	DATA
SAMPI	-	1.1111	EGIION	DAIA:

INDUSTRIAL WASTE

ANALYSIS DATA:

U. S. BCRAP CO. SOURCE

WATERWAYS

RESULTS EXPRESSED IN mg /1... (milligrams per liter)

LOCATION 400 E. 123rd Street

As indicated

Sta.# Storage Silo

N.S.= no sample N.A.= no analysis

TYPE Grab as indicated

PERIOD___

D	ALLOWABLE ISCHARGE LIMIT	'S	1.0	0.15	1.0		0.3	2.0	0.5	10	0.1	1.0	0.3	0.1	1.0	2.0	0.5	
LAB. NO.	DESCRIPTION	A.A. NO.	Zn	Cd	Cu	Total Cr	Hexa – valent Cr	ir Total	on Sol.	Ni	Pb	Se	As	Ag	Mn	Ba	Hg*	· ·
8021	1400 6/10/8 Giedraitis	0 2116	315	0.46	2.80	290	0	8020		9.8	1.94	0	0	0.08	71.6	0	0.2	
8116	6/14/80 Sustich 1200	2181	2.4	0.03	0.02	1.58	0	123		1.2	0.10	0	0		1.89	i !		
8117	6/12/80 Kelly 1400	2183	0.1	0.02	0.02	0.40	0	4.4		1.0	0	0	0		1.32			
8118	6/12/80 Kelly 1610	2184	0.7	0.03	0.01	0.49	0	47.5		1.1	0.10	0	0		1.64			
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*Reported in µg./1. (Micrograms per liter)

Data: June 17, 1980

Analyst: _ C. Arenberg

Date: __JUN 1 7 1980 Supervising Chemist: M. Millber

THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO RESEARCH AND CONTROL LABORATORY ATOMIC ABSORPTION METALS REPORT

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INDUSTRIAL WASTE

ANALYSIS DATA:

SOURCE	U.	S.	SCRAP	FACILITY

WATERWAYS

RESULTS EXPRESSED IN mg /l-(milligrams per liter)

LOCATION 122nd St & Cottage Grove

Northeast Silo

PERIOD_____

N.S.= no sample
N.A.= no analysis

TYPE

	ALLOWABLE	rs	1.0	0.15	1.0		0.3	2.0	0.5	10	0.1	1.0	0.3	0.1	1.0	2.0	0.5	
LAB.	DESCRIPTION	A.A.	Zn	Cd	Cu	Total	Hexa -	lr	on	Ni	Pb	Se .	As	Ag	Mn	Ba	Hg *	
NO.	Į.	NO.	2.11			Cr	Cr	Total	Sol.					T Y	1411)	DQ	119	
8094	6/12/80 Kelly 1115	2165	280	0.34	2.50	277	.0	7240		8.5	1.83	0	0	0	64.8	0_	0	
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*Reported in μg./1. (Micro	grams per liter)	Date: <u>JUN 1 7 1980</u>	
Date: June 17, 1980	Analyst: C. Arenberg	Supervising Chemist:	•
	•		

COMP	ANY _	U. S. SCRAP	FACILITY			·			SAMPL	ING 1	POINT	N	orthea	et_Si	lo				
		122nd St. at			е											LUEN'	T DISC	CHARG	E_X
ADDR	ESS	Chicago, Ill	linois				·		GRAB		ا ا	PVT. T	RT. PI	LANT.		WATE	RWAYS	RUN.	
19	80							so	LIDS		اليسيسي	NIT	ROG	E N	S	S			Œ
DATE	TIME	SAMPLER	LAB. NO.	рН	FOG	COD	BOD	TOTAL	TOTAL SUSPENDED	VOL ATILE SUSPENDED	DISSOLVED	TOTAL AS N	FREE AMMONIA AS N	NITRITE+ NITRATE AS N	TOTAL CYANIDE A CN-	FREE CYANIDE A CN-	PHENOL (µg/1)	тос	NON-POLAR F.O.G. (%)
6/12	1115	Kelly	8094	2.6	·				·				·		1.75		989*	•	
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	Meta	Its are in mg Is Attached yses as Requ		*	Result			L	ed			Ар	prove	d <i>W</i>	<i>M</i>	<i>lll</i>	Sing C	hemis	ŧ

JUN 1 7 1980

COMP	ANY _	U. S. SCRA	P	· · · · · · · · · · · · · · · · · · ·					SAMPL	ING F	POINT	Ga	rvey F	levato	or Sou	th	****		
		400 East 1	25th Stre						COMPO	SITE.	S	ANITA	RY SE	WER_	EFF	LUEN			
ADDR	ESS	Chicago, I	IIIIOIS						GRAB	^	/	901. 1	וא. א	LANI.		WATE	RWAYS	RUN.	
19	80							so	LIDS		E S	NIT	ROG	EN	AS	9			œ
DATE	TIME	SAMPLER	LAB. NO.	pН	FOG	COD	BOD	TOTAL	TOTAL SUSPENDED	VOLATILE Suspended	SOLIDS SOLIDS	TOTAL AS N	FREE AMMONIA AS N	NITRITE + NITRATE AS N	TOTAL CYANIDE A CN-	FREE CYANIDE A CN-	PHENOL (µg/1)	тос	NON-POLAR F.O.G.
6/12	1410	Kelly Kully	8118		265	3240									1.10		5401	1389	
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RD-401 Mar 8(

COMP	ANY	U.'S. SCRA	P						SAMPL	.ING I	POINT	Garve	y Elev	rator 1	Middle	l	· ·	·	·
,	-	400 East 1 Chicago, I		et					COMP(Grab				•						
19	80							so	LIDS	SERI	ES .	NI	TROG	E N	6	တ			œ
DATE	TIME	SAMPLER	LAB. NO.	рH	FOG	COD	BOD	TOTAL	TOTAL	VOL ATILE SUSPENDED	DISSOLVED	TOTAL AS N	FREE AMMONIA AS N	NITRITE + NITRATE AS N	TOTAL CYANIDE AS CN-	< <	PHENOL (µg/I)	тос	NON-POLAR FO.G.
6/14	1200	Tully Sustick	8116		2.3%	2900									1.10		6437	1078	
6/12	1400	Kelly Tully	8117		2387	2470									1.00		5652	1367	
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IND. WASTE DIV.

COMP	ANY _	OLD U.S.	SCRAP FAC	TLITY	10	nn JUN	17 D	! - L	SAMPL	ING I	POINT	N	orthe	ast Si	<u>lo</u>		···	· · · · · · · · · · · · · · · · · · ·	, ~
		122nd Stre	et & Cott	age Gr	ove		, , , , , , , , , , , , , , , , , , , 		COMP	SITE.	S	ANITA	RY SE	WER_	EFF	LUEN	T_DIS	CHARG	E_X
ADDR	ESS _	122nd Stre	llinois)F-GF	77: 8	H 60 .	GRAB	<u> </u>	1	PVT. T	RT. P	LANT.		WATE	RWAYS	RUN.	
19	80							T	LIDS	SERI	ES		ROG		<u>ر</u> ا	တ			
DATE	TIME	SAMPLER	LAB. NO.	рН	FOG	COD	BOD	TOTAL	TOTAL	VOL ATILE SUSPENDED	DISSOLVED SOLIDS	TOTAL AS N	FREE AMMONIA AS N	NITRITE + NITRATE AS N	TOTAL CYANIDE A	FREE CYANIDE A CN-	PHENOL (19/1)	тос	NON-POLAR F.O.G.
6/12	1115	Kelly	8094	2.6															
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	Meta	Its are in mg Is Attached yses as Requ		pt for	рН с	ind wh	iere i	ndicat	ed			Ар	prove	d <u> </u>	V. 1	Wel upervi	Cha sing (hemis	 st

THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO RESEARCH AND CONTROL LABORATORY ATOMIC ABSORPTION METALS REPORT

SAMPLE COLLECTION DATA:	INDUSTRIAL WASTE	ANALYSIS DATA;
SOURCE U. B. SCRAP FACILITY	WATERWAYS	RESULTS EXPRESSED IN mg /I'
LOCATION 122nd St. & Cottage Grove	Northeast Silo	(milligrams per liter)
PERIOD		N.S.= no sample N.A.= no analysis

[ALLOWABLE DISCHARGE LIMIT	S	1.0	0.15	1.0		0.3	2.0	0.5	10	0.1	1.0	0.3	0.1	1.0	2.0	0.5	
LAB. NO.	DESCRIPTION	A.A. NO.	Zn	Cd	Cu	Total Cr	Hexa - valent Cr	lr Total	on Sol.	Ni	Pb	Se	As	Ag	Mn	Ba	Hg *	
8094	6/12/80 Kelly 1115	2165	315	0.34	2.50	277	-	7240		8.5	1.83	0		0	64.8			
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Date: __ JUN 1 6 1980 *Reported in µg./1. (Micrograms per lifer) Date: June 16, 1980 Analyst: C. Arenberg

Supervising Chemist: W.N. ellbare

JUN 13 1980

COMP	ANY _	U.S. SCR	Æ		·····	, 		· ·	SAMPL	.ING I	POINT		Stor	age S	i.10				······································
4555	_	400 East] Chicago,]												-	•				
AUUN	ESS _	· Circago,	IIIINIS	······	·····				GRAB	X		PV 1. 1	KI, P	LANI.		WATE	RWAYS	RUN.	
19	80							so	LIDS			NI	ROG	EN	ø	AS			œ
DATE	TIME	SAMPLER	LAB. NO.	рН	FOG	COD	BOD	TOTAL	TOTAL SUSPENDED	VOL ATILE SUSPENDED	DISSOLVED SOLIDS	TOTAL AS N	FREE AMMONIA AS N	NITRITE'+ NITRATE AS N	TOTAL CYANIDE A CN-		PHENOL (pd/1)	тос	NON-POLAR F.O.G.
6/10	1400	Giedraitis	8021	2.0	33					·									
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THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO RESEARCH AND CONTROL LABORATORY ATOMIC ABSORPTION METALS REPORT

SAMPL	RES		H AN	D CO	NTROL	L LAE	BORAT INDU	ORY			SORP	TION	MET		REPOF		•	(
LOCAT	U. S. SC TION 400 E. 12 0 6/10/80	•						VATE:		S.				(mil N.S.=	ligrams no sami	per lite ple	SSED IN 1	mg /la
TYPE_	G1 1400 /		itis 1.0	0.15	1.0	· · · · ·	0.3	2.0	0.5	10	0.1	1.0	0.3	N.A.=	no anal	ysis 2.0	0.5	
LAB.	DESCRIPTION	A.A.	Zn	Cd	Cú	Total	Hexa -	Ir	on	Ni	Pb	Se	As	Ag	Mn	Ba	Hg *	
NO.	DESCRIPTION	NO.	Zn	Co	CU	Cr	Cr	Total	Sol.	"	PO	34	A8	Ag	MI	Вų	I ng	
8021		2116	315	0.43	2.80	290		8020		9.8	1.94	0	0	0.08	71.6	0	0.2	·····

NO.		NO.			l	Cr	Cr	Total	Sol.									
8021		2116	315	0.43	2.80	290		8020		9.8	1.94	0	0	0.08	71.6	0	0.2	
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#Reported in µg./1. (Micrograms per liter)

Date: June 13, 1980 Analyst: C. Arenberg Supervising Chemist: W. W. W. Lelbare

PP

JUN 1 7 1990

COMP	ANY	u.s. SCRA	P.				····		SAMPL	.ING I	POINT		Storac	e Silo)			_	
•	-	400 E. 123	rd Street	<u> </u>					COMP							LUEN	T DIS	CHARG	E X
ADDR	ES S	Chicago, I	llinois	 -	· · · · · · · · · · · · · · · · · · ·	· 			GRAB	X	<u> </u>	PVT, 1	RT. P	LANT.		WATE	RWAYS	RUN.	·
19	80							so	LIDS	SERI	ES	NI	rrog	ΕN	S	တ			æ
DATE	TIME	SAMPLER	LAB. NO.	рΗ	FOG	COD	BOD	TOTAL	TOTAL	VOL ATILE SUSPENDED	DISSOLVED	TOTAL AS N	FREE AMMONIA AS N	NITRITE + NITRATE AS N	 	⋖	PHENOL (µg/!)	тос	NON-POLAR F.O.G.
6/10	1400	Giedraitis	8021	2.0	33				·							•			
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19	76		70 To 1000 Project 11 U 10		(3)		10.00	SOL			ES					A			2
ATE	TIME	SAMPLER	HO.	p H	SOLUBL	COD	BOD	TOTAL	TOTAL SUSPENDED	VOL ATILE BUSPENCE	201108	TOTAL AS M	FRE Z AMBONIA AS-N	NITRITE+ NITRATE	TOTAL CYANIDE (CYANIOK C	PHENOL (1/87)		-
ì	2:00 p.m.	J. Corcoran	5064	7.7	·	/	Requ	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		20000000					The state of the s	NR			
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	-	U. S. SCRAP 391 E. Kensi Chicago, Ill	ngton					Sae Com Gra	Posi	TE_	_SAP	HTAR	y set	ver_	_EFF				
IDURE Extraction 19	THE PRE	Gilleago, 12-		7			0.64	Taransas	IDS	t motern of	CECIE ESC	1	RO6	reaman					
DATE		SAMPLER	LAB No.	PH	HEXANE	COD	BOD	4	TOTAL			TOTAL AS N	FREE Ammonia As-H-	HITRATE ALL ALL HALL	TOTAL CYANIDE AS	FREE CYAHIDE AI CH -	PHENOL (1/54)		-
7-4	1:00 p.m.	J.Corcoran	5063	NR	1800	Not	Requ	ested											
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`8. —																			-
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	Metols Analys	are in mg/l. Attached es as Request	· · ·	рН с	nd wi	ocro	indico	934)				Appr	oved			p • r v i	ing	ham	ist 6 m

THE METROPOLITAN SIMITARY DISTRICT OF GREATER CHICAGO

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	10 M 3 M 4	CYANIDE	CYAHIDE	NITRITE+	ARMONIA AS-R	AS N	SOLIDS	SUSPENDED	SUSPENDE	TOTAL	000	cop	ACLUBLES	НФ	, NO.	SAUPLER	IZII	
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erene Erene	ianei Meiri	a mariae	brown:	TMA.	7.d ' 1.	AT .T	V9	X	(S)	4619 1	Consume.		la veno	in the second	0 T CUT T	Chicago, Il	SS	35 35
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					Statio				MIZ						CORPORATION	,		84

THE METROPOLITAN SIMITARY DISTRICT OF GREATER CHICAGO

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,		(10/1)	FREE CYANIDE CN-	TOTAL CYANIOE	NITRITE+	AMMONIA AS-N	TOTAL AS N	DISSOLVED	SUSPENDER	SUSPENDED	TOTAL	TOTAL	000	cop	SOLUBLE	Hq	'ON 'V	SEE PAREME	SAUPLER	3617	2176
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RESEARCH AND CONTROL LABORATORY ATOMIC ABSORPTION METALS REPORT

SAMPLE COLLECTION DATA: INDUSTRIAL WASTE

ANALYSIS DATA:

SOURCE U. S. SCRAP CORPORATION

WATERWAYS

RESULTS EXPRESSED IN mg / (milligrams per liter)

LOCATION 391 E. Kensington

Station #8

N.S.= no sample

PERIOD 3/4/76

N.A.= no analysis

TY	PE	Grab	2	:00p	.m.	Boehme
			_			

	ALLOWABLE DISCHARGE LIMIT	'S	1.0	0.15	1.0		0.3	2.0	0.5	10	0.1	1.0	0.3	0.1	1.0	2.0	0.5	
LAB.	DESCRIPTION	`A.A.	Zn	Cd	Cu	Total	Hexa -	Ir	on	Ni	Pb	Se	As*	Ag	Mn	Во	₩ Hg	[
NO	1	NO.	211	Cu	Cu	Cr	Cr	Total	Sol.	N.	10	3.	A.	My	MII	50	119	
5064	2:00p.m. Boeline 3/4/76	5340	0	. 0	0	0.01		4		0.1	0.07	0		0	0.45	0.2	0.3	
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*	Reported	in	ua / I	(Micrograms	per	liter)
~	Mehoriea	111	μy./ i.	(micrograms	hei	111017

Dato: March 5, 1976 Analyst: C. Arenberg

Dats: 3/8/76

Supervising Chemist: W. Mill Chery To

RESEARCH AND CONTROL LABORATORY ATOMIC ABSORPTION METALS REPORT INDUSTRIAL WASTE ANALYSIS DATA: SAMPLE COLLECTION DATA: SEWERS SOURCE U. S. SCRAP CORPORATION RESULTS EXPRESSED IN mg (milligrams per lifer) LOCATION 391 E. Kensington Station #1 N.S.= no sample PERIOD 3/4/76 N.A. = no analysis TYPE Grab 12:45p.m. Corcoran ALLOWABLE 0.5 15.0 2.0 3.0 25.0 10.0 50.0 10.0 0.5 1.0 DISCHARGE LIMITS Hoxa-**Total** LAB. DESCRIPTION A.A. valent Zn Cd Fe NI Cu Pb Se Ha NO. Cr ' 112:45 3/4 0.6 0.20 0.15 0.08 7. 0.7 p.m.Corcoran 5339 0.5 0 11.2

₩ Reported in µg./1. (Micrograms per liter)

Date: March 4, 1976 Analyst: C. Arenberg

Supervising Chemist: W. Miller 95

SISTANA STEAM JAINICUUM

Supervising Chemist Analyses as Roguestod bofiberta glotata Approved M. Milliam Results are in mg / 1, aucect for pH and where indicated 2:00 p.m. 7905 Corcoran 7/8 L. T 52 23 1282 200 ISY3 6 600 NK 7 VOL ATILE PARE CVANIDE CYANIDE CYANIDE CISSOLVED SUSPENDE HEXANE SOLUGLE NON TOTAL TOTAL (P 6 / 1) BUIL BIAG CODIBOD SAMPLER Hd 94 61 2011D2 2237100A GAND Chicago, Illinois EVIERNIAD BUN TUAL TRT. PLAUT. COMPOSITE __ 331 E. Kensington A Serringed thbulthhi miwer yratinar. COSSESSIA SALETING POINT U. S. SCRAP CORP. 8# noldsy2

INDUSTRIAL WASTE ANALYSIS

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DATE	<u></u>	SAMPLER	LAB.	ρH	HEXAME SOLUBLES	COD	BOD	TOTAL	TOTAL SUSPENDED	VOL ATILE SUSPENDER	DISSOLVED SOLIDS	TOTAL AS N	FREE ARMONIA AS-N	NITRITE + NITRATE AS N	TOTAL CTANIDE A	FREE CVANIDE A CN	PHENOL (1/64)		•
		Rerun	5063		1799														<u> </u>
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INDUSTRIAL WASTE ANALYSIS

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DORES		Chicago, Illi	1018	•				LUZ] :I:3		_		T.PL					·
DATE		SAMPLER	LAB. No.	PH	HEXANE	COD	800	TOTAL	TOTAL	VOL ATILE SUSPENDED	DISSOLVED	TOTAL AS M	FREE AMMONIA AS N	NITRITE +	TOTAL CYANIDE A	FREE CYANIDE A	PHENOL (44/1)	
3/4	1:00 p.m.	J.Corcoran	5063	NR	1800			ested	CHROKE						4			icesson i
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!	Metals Analys	s are in mg/l. Attached ses as Request	·	pH e	nd wi	িজ্ঞান	indiso	a d				App	roved	W	Su	elle pervi	sing.	121

INDUSTRIAL WASTE AUALYSIS

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	·	(1/8/1)	PREE CYANIDE CN	TOTAL	NITRITE + HITRATE AS B	VINORITE Base	TOTAL AS N	SOLIS	BUSSENDE	TOTAL SUSPENDE	TOTAL	008	αóɔ	SOLUBLI SOLUBLI	HG		אכ ר א	b:	2748 4 \$	ECIT	
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VICTOR CIARDELLI.

Law Offices

LA SALLE PLAZA BUILDING 180 NORTH LA SALLE STREET CHICAGO, ILLINOIS 60601 F1 - 6 - 2 5 2 2

VICTOR F. CIARDELLI EDWARD M. NICOL

March 2, 1976

Alan S. Lavin By Michael G. Rosenberg 100 East Erie Street Chicago, Illinois 60611

> Metropolitan Sanitary District vs. U.S. Scrap, et al. RE:

Case No. 74 CH 6160 Our File No. 2293

Dear Mr. Rosenberg:

Enclosed please find Appearance and Order relative to the above captioned matter.

Very truly yours,

VICTOR F. CIARDELLI, LTD.

VFC: vs

Encl.

INDUSTRIAL WASTE CONTROL CASE DISPOSITION Company U.S. Location 391 Quet ensington-Compliance Date Violation # (X) Waterway Dak () Sanitary Sewer () Manhole) Other FIELD INFORMATION ENFORCEMENT DISPOSITION Inspection In Compliance Sampling In Violation () Sanitary Sewer Handled By:) Waterway TYPE OF SAMPLING: Grab Manhole Composite hrs. Automatic) Other Trailer Sampling TYPE OF STUDY: RECOMMENDED FOR:) Initial Study Show Cause) Surveillance Sampling () Court Compliance Sampling () Resample Days) Conciliation) Grabs) Show Cause Composite - Auto Court). Formal Study SECTION: PARAMETERS: North All .) Central) pH South) Hexane) Auto Samplers Tr. Mtls.) Surcharge) Waterway REMARKS: Report submitted to Law Dept - M. Rosenberg.

THE METROPOLITAN SANITARY DISTRICT OF GREATER CHILAGO INDUSTRIAL WASTE ANALYSIS

JUL 1 6 1975

		U.'S. SCRAP 391 E. Kensi Chicago, Ill			1:	· · · · · · · · · · · · · · · · · · ·		SAN CON GRA	IPOSI	TE_	_SAN	NATI	Y SE	WER_					
- 19	75		•		90			SOL	IDS	SER	IES	NIT	ROG	EN	•	78			
DATE		SAMPLER	LAB. No.	рΗ	HEXANE SOLUBLE	COD	BOD	TOTAL	TOTAL SUSPENDED	VOL ATILE SUSPENDED	DISSOLVED SOLIDS	TOTAL AS N	FREE AMMONIA AS:N	NITRITE+ NITRATE AS N	TOTAL CYANIDE AS	FREE CYANIDE A	PHENOL (mg/1)		
6/20	11:00 a.m.	Corcoran Boehme	5068	6.8	γ	Υ	3800		1430		7688	NR	92.0	NR	.670	NR	NA		
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•	Metals Analys	s are in mg/l. Attached ses as Request		pH a	nd w	here	indica	ted				Аррі	roved	W	Su	ell.	bari sing	Chem	ist 6 m

THE METROPOLITAN SANITARY DISTRICT OF GREATER CHILAGO INDUSTRIAL WASTE ANALYSIS

JUL 1 6 1975

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197	5		•	Ī	50			SOL	IDS	SER	IES	NIT	ROG	EN		•			
DATE		SAMPLER	LAB. No.	рН	HEXANE SOLUBLE	COD	BOD	TOTAL	TOTAL	VOL ATILE SUSPENDED	DISSOLVED SOLIDS	TOTAL AS N	FREE AMMONIA AS:N:	NITRITE+ NITRATE AS N	TOTAL CYANIDE A	FREE CYANIDE A	PHENOL (19/1)	•	
5/20	10:00 a.m.	Boehme Corcoran	5067	8.1		Y		2498	26		2472		_		.022	NR	35		
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!	Metals Analys	are in mg/1. Attached es as Request	•	pH a	nd w	L	indica	ted •				Аррі	oved	11. QD	NV.	<i>Cli</i>	Services	Chem	ist.

SOURC	E COLLECTION E U.S. SCRAP ION 391 E. Ken	CORPOR			·		Ж	ATE	AL WAR					RES	LYSIS BULTS E	XPRES		mg ∕I.
PERIO	June 20, 1					·	S	tation	· #8						no sam no anal	*		
C	ALLOWABLE	rs	1.0	0.15	1.0	,	0.3	2.0	0.5	io	0.1	1.0	0.3	0.1	1.0	2.0	0.5	(
LAB. NO.	DESCRIPTION	A.A. NO.	Zn	Cd	Cu	Total Cr	Hexa – valent Cr	lr Total	on Sol.	Ni	Pb	Se	As*	Ag	Mn	Ba	Hg *	
5067	11:00a Boehme 6/20	8409	0	0	0	1.93	0	1		0.5	0.03	0	0	0	0.76	0.4	0.1	
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★ Rep	orted in µg./l. (M		ıs per li		Aren							Date:_	JUN	301	975			

SAMPL	E COLLECTION					,		ISTRI			JU!!	· · • ; •	771 map 7 1		LYSIS		,	
SOURC	E U.S. SCRA	P CORP	ORATIO	N ,		•. •		VATE		<u>S</u> _			,			XPRES	SED IN	mg /
LOCAT	ON 391 E. Ke	nsingt	on			•	•	Statio	n #8				-	(4111)	iigi uiiis	perine	''	•
PERIO	June 20, 197	5			٠.		•			ï					no sam	•		
TYPE	Grab	·	·															
D	ALLOWABLE	rs	1.0	0.15	1.0		0.3	2.0	0.5	10	0.1	1.0	0.3	0.1	1.0	2.0	0.5	
LAB.	DESCRIPTION	A.A.	Zn	Cd	Cu	Total	Hexa - valent	Ir	ON '	Ni	РЬ	Se .	- A8	Ag	Mn	Bo	Hg*	
NO.	DESCRIPTION	NO.	211		00	Cr	Cr	Total	Sol.	141	PU	3.	A.	Ay	MIII	- Bu	ny	
5067	Rerun	8409				1.91					·							
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★Reported in µg./I. (Micrograms per liter)

Date: June 30, 1975

C. Arenberg

Date: ___JUN 30,1975
Supervising Chemist: W. W. M. Claru

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	E COLLECTION	ASTE				ANA	LYSIS	DATA:	, ' .									
	U.S. SCRAP	•					1	ALE: tation	?WAY ; #2	<u>5</u> _			,		ULTS E ligrams			mg 7l
PERIO	June 20, 197 Grab						J						٠		no sami			
	ALLOWABLE DISCHARGE LIMIT	·s	1.0	0.15	1.0		0.3	2.0	0.5	10	0.1	1.0	0.3	0.1	1.0	2.0	0.5	
LAB. NO.	DESCRIPTION	A.A. NO.	Zn	Cd	Cu	Total Cr	Hexa - valent Cr	Total	on :	Ni	Pb	Se	As *	Ag	Mn	Ba	Hg*	
5068	10:00a Boehme 6/20	8408	4.5	0.02	0.05	0		35		2.5	0.20	0	0	0	7.65	0.8	1.4	
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	orted in µg./1. (Mi June 30, 197			ter) /st:C	. Areı	nberg			Su	pervisi	Eng Che	Date: _ mist: _	11/1/1	130 120	1975 Obern			P.P.

SOURC LOCAT	E COLLECTION E U.S.SCRAP C ION 391 E. Ken June 20,	DATA: ORPORA'	rion			•	INDL	VATES	AL WAY	ASTE				ANA RES (mil	LYSIS (ULTS E ligrams	XPRES		mg /
TYPE_	Grab	· ·	······································												no anal			
C	ALLOWABLE		1.0	0.15	1.0		0.3	2.0	0.5	10	0.1	1.0	0.3	0.1	1.0	2.0	0.5	
LAB. NO.	DESCRIPTION	A.A. NO.	Zn	Cd	Cu	Total Cr	Hexa - valent Cr	lr Total	on Sol.	Ni	РЬ	Se	As	Ag	Mn	Ba	Hg *	
5068	Rerun	8408	4.4					35		2.5	0.20				7.65		1.3	
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P.P.G.

THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO INDUSTRIAL WASTE ANALYSIS

JUL 2 1 1975

OMPA .DDRE	-	U. S. SCRAP (391 E. Kensi Chicago, Ill	ngton					- COM	Posi	TE		IITAR	Y SEY	WER_					
19	75		· ·		. M			SOL	IDS				ROG	EM	•	•			
DATE	<u> </u>	SAMPLER	LAB. No.	рн	W	СОВ	BOD	TOTAL	TOTAL SUSPENDED	VOL ATILE SUSPENDED	DISSOLVED SOLIDS	TOTAL AS N	FREE AMMONIA AS.N.	NITRITE+ NITRATE AS M	TOTAL CVANIDE A CN-	-	PHENOL (#6/1)		
6/30	9:15 a.m.	Meyers	5303	7.7	94	700	235	3542	934		2608		10.4	NR	.006		NA		
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1	Metals Analys	s are in mg/l. Attached les as Request		рН в	nd w	here i	in dica	ted •			-	Аррі	oved	<i>9</i> ν. λ.R	M. Su	<i>DL</i>	Berne (hem	ist

THE METROPOLITAN SANITARY DISTRICT OF GREATER CHILAGO INDUSTRIAL WASTE ANALYSIS

OMPA		U.S. SCRAP C 391 E. Kensi Chicago, Ill	ngton					. COM	POSI	TE_	OINT. _SAN PV	HTAR	y sev	NER_	#8 _EFF		T DIS	CHAR	
19 7	5		•		99 NJ			SOL	IDS			A	ROS	EN		=	·		
DATE	TIME	SAMPLER	NO.	pН	HEXANE	COD	B OD	TOTAL	TOTAL SUSPENDED	VOL ATILE SUSPENDED	DISSOLVED SOLIDS	TOTAL AS N	FREE AMMONIA AS-N	NITRITE+ NITRATE AB N	TOTAL CYANIDE A	CYANIDE /	PHENOL (40/1)		:
6/30	9:45 a.m.	Meyers	5304	7.9		285	25	2608			2458	_	12.0		.016		17		
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.,	Metals Analys	s are in mg/l. Attached ses as Request		pH a	nd w	here	indice	ted				Appr	oved	<u>N</u> N.R	. N	LLL pervi	Place 1	Chemi	ist

SAMPLE COLLECTION DATA:	INDUSTRIAL WASTE	ANALYSIS DATA:
SOURCEU. S. SCRAP	WATERWAYS	RESULTS EXPRESSED IN mg /I.
LOCATION 391 E. Kensington		(minigrams per inter)
PERIOD June 30, 1975		N.S.= no sample
TYPE Grab 9:15 a.m. Mevers		N.A.= no analysis

(ALLOWABLE	rs	1.0	0.15	1.0		0.3	2.0	0.5	10	0.1	1.0	0.3	0.1	1.0	2.0	0.5	, ~
LAB.	DESCRIPTION	A.A.	Zn	Cd	Cú	Total Cr	Hexa- valent	lr Tabel	on	Ni.	РЬ	Se	As	Ag	Mn	Ba .	# Hg	
NO.		NO.		<u> </u>	\	- Cr	Cr	Total	Sol.	 	 							
5303		8564	0.7	0	0	0.19		23		0.5	0.09	. 0	0	0	1.54	0.4	0	
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*Reported in µg./1. (Micrograms per liter)

Date: July 18, 1975 Analyst: C. Arenberg

Supervising Chemist: W. Mullbau.

N.R.

	E U. S. SCRA					•		ISTRI VATE			-	-			LYSIS I		SED IN	ma /l
	ION 391 E. Ke		n				S	tation	#2							per lite		y / 1.
	6/30/75 Grab 9:15 a	.m. Me	yers	 `					(·	,				no sam no anal			
	ALLOWABLE	s	1.0	0.15	1.0		0.3	2.0	0.5	10	0.1	1.0	0.3	0.1	1.0	2.0	0.5	·~
LAB. NO.	DESCRIPTION	A.A. NO.	Zn	Cd	Cu	Total Cr	Hexa - valent Cr	lr Total	on Sol.	Ni	Pb	Se	As	Ag	Mn	Ba	Hg*	
5303	Rerun	8564						23			·							
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	orted in µg./l. (Mi 			iter)	Aren	berg_			Su	pervisio	Ing Che	Date: _ mist: _	JUL	1 8,197 Wil	Elle		, <u>,</u>	220

SAMFL	E COLLECTION	DATA:				•	INDU	ISTRI	AL W	ASTE				ANA	ALYSIS	DATA:	•	,
	E <u>U.S.SCRA</u>	•	on					VATE:		<u>S</u> _			,		ULTS E lligrams			mg Å.
PERIO	6/30/75 Grab 9:45 a												·		no sam	•		eps
D	ALLOWABLE	rs	1.0	0.15	1.0		0.3	2.0	0.5	10	0.1	1.0	0.3	0.1	1.0	2.0	0.5	× (
LAB. NO.	DESCRIPTION	A.A. NO.	Zn	Cd	Cu	Total Cr	Hexa - valent Cr	Total	on Sol.	Ni	Pb	Se	As	Ag	Mn	Ва	Hg*	
5304		8565	0	0	0.02	0.04		4	0	0.3	0.06	0	0	0	0.68	0.3	0	
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	orted in µg./1. (M July 18, 197				C. Arei	nberg			Su	Ipervisi	Ing Che	Date: mist:	JUL 1 W.R.	ull	lare	· · · · · · · · · · · · · · · · · · ·		PPG

INDUSTRIAL WASTE CONTROL CASE DISPOSITION

'	Date <u>MAY 1,1975</u>
Company US SCRAP CORP	
Location 39/ E KENSINGTON	CHICAGO -
Violation # CIRCUIT COURT # 74 CHG160C	Compliance Date
(X) Sanitary Sewer) Waterway
() Manhole) Other
FIELD INFORMATION	ENEODOCINENT DICTOCHTON
Date	ENFORCEMENT DISPOSITION
(X) Inspection APRIL 39,1975	() In Compliance
(X) Sampling <u>ARIL 29,1975</u>	() In Violation
() Sampling ARIZ 29/19/5	
Handled By: BochWE- CORCORHN	Sanitary Sewer HEXANE, 180N, MERCUR
TYPE OF SAMPLING:	() Waterway
(X) Grab	
() Compositehrs.	() <u>Manhole</u>
() Automatic	
() Trailer Sampling	() Other
TYPE OF CHIDY.	• · · · · · · · · · · · · · · · · · · ·
TYPE OF STUDY: () Initial Study	RECOMMENDED FOR:
(X) Surveillance Sampling	() Show Cause
() Compliance Sampling	() Court
() Conciliation	() Resample Days
() Show Cause	() Grabs
(V) Court	() Composite - Auto
	() Formal Study
SECTION:	parameters:
() North	() All ()
() Central () South	() pH ()
() Auto Samplers	() Hexane ()
() Surcharge	() Tr. Mtls. ()
() Waterway	
	By: from blue
REMARKS:	Date: 5/21/75
RADIO CALL RECIEVED	REPORT & ANALYSES REFERCED
ROM E. PYTEL OF US SCRAP CORP	TO M. ROSENBERG, LAW DEPT.
EACHING-UNTO CALUMET TREATMENT	ON 5/21/75.
ANT PROPERTY & SEWERS	CO. PRESENTLY IN LITIGATION

PLANT PROPERTY &- SEWERS

THE METROPOLITAN SANITARY DISTRICT OF GREATER CHILAGO INDUSTRIAL WASTE ANALYSIS

MAY 1 4 19/5

DMPA DDRE		U. S. SCRAP 391 E. Kensin Chicago, Ill	ngton					- CON	IPOSI	TE_	_SAN	HTAR	Y SE		X EFF				
19	75		•					SOL	IDS	SER			ROG	EN		8.			1
DATE	TIME	SAMPLER	LAB. No.	PH	HEXANE SOLUBLES	COD	BOD	TOTAL	TOTAL	VOL ATILE SUSPENDED	SOLIDS SOLIDS	TOTAL AS N	FREE AMMONIA AS-N	NITRITE+ NITRATE AR N	TOTAL CYANIDE A CN	FREE CYANIDE /	PHENOL (1/67)		
29	2:40 D.M.	Boehme	3410	8.5	1	Not	Requ	ested							.023		NR		•
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-	Metals Analys	are in mg/1. Attached es as Request	·	рн е	nd w	here	indica	ted				Аррі	oved	W.	<i>M)</i> RSu	all	Vea.	Chem	ist 5 M

THE METROPOLITAN SIMITARY DISTRICT OF GREATER CHILAGO INDUSTRIAL WASTE ANALYSIS

MAY 1 4 1975.

		U. S. SCRAP I 391 E. Kensii Chicago, Illi	ngton						IPO SI	TE_	SAI	NTAR	Y SE	WER_	XEFF				
19 7					90			Ţ			IES								
DATE		SAMPLER	LAB. No.	рн	HEXANE SOLUBLES	COD	BOD	TOTAL	TOTAL	VOL ATILE SUSPENDED	DISSOLVED	TOTAL AS N	FREE	NITRITE . NITRATE	TOTAL CYANIDE AL CN	CYANIDE A	PHENOL (10)		
4/29	2:30 p.m.	Boehme	3411	8.3	154		Requ					=			.018			-	
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	Metals Analys	are in mg/1. Altached es as Reques		рн о	nd w	here	indico	ted	· ·			Аррі	roved	3/2 m	M.R.Su) il	Clos	2	lse.

SAMPLE COLLECTION DATA:	•	INDUSTRIAL WASTE	ANALYSIS DATA:
SOURCE U. S. SCRAP INC.		<u>SEWERS</u>	RESULTS EXPRESSED IN mg./
LOCATION 391 E. Kensington		Station #1	(milligrams per liter)
PERIOD4/29/75	~		N.S.= no sample N.A.= no analysis
TYPE Grab 2:40 p.m. Boehme			N.A110 unuiyais

E	ALLOWABLE DISCHARGE LIMIT	rs	15.0	2.0	3.0	25.0	10.0	50.0	10.0	0.5	1.0	0.5			
LAB. NO.	DESCRIPTION	A.A. NO.	Zn	Cd	Cu	Total Cr	Hexa- valent Cr	Fe	Ni	РЬ	Se	# Hg			
3410		7268	2.3	0.02	0.18	0.40		7	2.5	0.47		0			
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*Reported in µg./1. (Micrograms per liter)

Date: May 8, 1975

Analyst: C. Arenberg

Supervising Chemist: M.R.

N.R.

PPG

		,					STRIA	L WA	STE							_	•
U.S. SCRAP	INC.								-			,					mg./1
391 E. Ket	nsingto	on	·		•		Stati	on #8					, (mi)	ırgram	s per iiii	er /	
4/29/75	·											•			•		
rab 2:30 p.1	m. Boe	hme											17.74.	- 110 Uni			
ALLOWABLE CHARGE LIMIT	' \$	15.0	2.0	3.0	25.0	10.0	50.0	10.0	0.5	1.0	0,5						, ,
ESCRIPTION	A.A. NO.	Zn	C4	Cu	Total Cr	Hexa- valent Cr	Fe	NI	РЬ	Se	Hg #						
	7269	6.5	0.03	0.26	0.14		118	1.1	0.47	Ÿ	2.3						<u>.</u>
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	COLLECTION II. S. SCRAP 391 E. Ker 4/29/75 rab 2:30 p.: ALLOWABLE CHARGE LIMIT	U. S. SCRAP INC. 391 E. Kensingto 4/29/75 rab 2:30 p.m. Boe ALLOWABLE CHARGE LIMITS ESCRIPTION A.A. NO.	COLLECTION DATA: II. S. SCRAP INC, 391 E. Kensington 4/29/75 rab 2:30 p.m. Boehme ALLOWABLE CHARGE LIMITS ESCRIPTION A.A. NO. Zn	COLLECTION DATA: II. S. SCRAP INC. 391 E. Kensington 4/29/75 rab 2:30 p.m. Boehme ALLOWABLE CHARGE LIMITS ESCRIPTION A.A. Zn Cd 7269 6.5 0.03	COLLECTION DATA: II. S. SCRAP INC. 391 E. Kensington 4/29/75 rab 2:30 p.m. Boehme ALLOWABLE CHARGE LIMITS ESCRIPTION A.A. Zn Cd Cu 7269 6.5 0.03 0.26	COLLECTION DATA: II. S. SCRAP INC. 391 E. Kensington 4/29/75 rab 2:30 p.m. Boehme ALLOWABLE CHARGE LIMITS ESCRIPTION A.A. NO. 7269 6.5 0.03 0.26 0.14	INDUCTION DATA: INDUCTION	INDUSTRIA SEX SCRAP INC. SEX STATE	S. SCRAP INC. SEWERS Station #8 Stat	INDUSTRIAL WASTE SEWERS Station #8 S	INDUSTRIAL WASTE SEWERS Station #8 S	INDUSTRIAL WASTE SEWERS Station #8 S	INDUSTRIAL WASTE SEWERS Station #8 S	SEWERS SEWERS Station #8	INDUSTRIAL WASTE ANALYSIS SEWERS SEWERS Station #8 Station	SEWERS Station #8 Station #8 RESULTS EXPRES (milligrams per like 1/29/75 N.S.= no somple N.A.= no analysis	INDUSTRIAL WASTE ANALYSIS DATA: INDUSTRIAL WASTE SEWERS SEWERS Station #8 Station

THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO

	A second	EARC	H AN	D COI	NTRO	L LAE	BORAT INDU	ORY ISTRIA			SORI	PTION	MET		REPOI			
		INC.	n				· .		VERS				ı	RE9 (mil	ULTS E ligrams	EXPRES per lite	SED IN	mg./l.
Tr	<u>ż</u> : 30 p	.m. Bo	ehme										٠		no sam no anal			
£	ALLOWABLE DISCHARGE LIMIT	S	15.0	2.0	3,0	25.0	10.0	50.0	10.0	0.5	1.0	0.5						7
LAB. NO.	DESCRIPTION	A.A. NO.	Zn	Cd	Cu	Total Cr	Hexa- valent Cr	Fe	Ni	Pb	Se	##						
3411	Rerun	7269						118			٧.	2.4		-				
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₩ Reported in µg./1. (Microgram	s per liter)	,		Date:_	5/19/77		
Date: 5/8/75	Analyst:	. Arenberg	´ s	upervising Chemist:	W. Wil	Clare	• .

ENFORCE ENT SAMPLING W C FIELD OPERATION - SPECIAL INVESTIGATION

Subject of Investigation:

U.S. SCRAP CORP. 391 East Kensington Chicago, Illinois

Date of Investigation: April 29, 1975

Originated by: Main Office	Person	Date	<u>Time</u>
Trt. Plant Co Clean Streams	E. Pytel	4-29-75	11:25AN
Other Other Local Authority			Radio
Type of Complaint:			
Waterway Osewer 😠 Other O		. -	
Sanitary Sewer	,		<u> </u>
Supervisor Assigned:	Water Samp	lers:	
J. Corcoran A. Boehme			•
Sample 8 Eight Photographs 27	Two Additional Informat	ion Attached	

INVESTIGATION: Responding to radio message from E. Pytel at 11:25 A.M.

Leaching from U.S. Scrap Corporation's property onto Calumet Sewage Treatment Works property.

Grab samples were taken from stations #1 and #8 for cyanide, hexane solubles, trace metals and pH. Samples were delivered to South Trailer, where they were transported to the M.S.D. Main Lab for analys.

Two attached photos show leachate coming from U.S. Scrap property onto Calumet Treatment Works property. This runoff flows into M.S.D. return sanitary sewer line and then through the regular treatment system.

AB/re

A. Boehme, PCO I

TM ATIDIT TOUT TOTAL

I W C FIL D OPERATION - SPECIAL I. VESTIGATION

Subject	of	Inv	est	iga	tion:
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Date of Investigation:

U.S. Scrap

391 E. Hensington

Chicago, Ill

Dec. 1, 1975

Originated by: Main Office	Person	Date	Time
Trt. Plant O Clean Streams Q		11/20/75	<u> </u>
Other Complaint:	IWC CASE DI	SPOSITION	
Waterway Sewer Other			
Lake Calumet			

Supervisor Assigned:

Water Samplers:

J. Corcoran - C. Meyers

Sample (X)

None

Photographs () 2

Additional Information Attached

INVESTIGATION:

Per Industrial Waste Control Case Disposition.

Make inspection and submit report before Dec. 9, 1975 - Court Date. Inspection today Dec. 1, 1975 showed the following:

No work was being done and there were no U.S. Scrap employees at the site cleaning-up.

The ditch on the east property line of U.S. Scrap had about 10" of free board.

There was no run-off from this ditch to M.S.D. Property. A heavy oil film has collected on the surface at the Northeast corner, this is contained on U.S. Scrap property.

Full & partial drums of sludge, paint skins, and liquid waste were on a dock on U.S. Scrap property. See attached photo. A flat-bed with about fifty drums stored at the North end.

Inspection on the east side of M.S.D. Property and around the grain elevators, no run-off was seen there & no samples were taken.

Approyed:

cc: J. Tobias

· PCO III Venuso Assistant Field Supervisor

SUMMARY OF PERMEABILITY TEST RESULTS

Boring No.	G-105	G-103	G-103- ′	G-106
Sample No.	12	6	9	7
Depth (ft)	40-42	12.5-14.5	20-22	12.5-14.5
Classifi- cation	CL	CL	CL	CL
Ory Unit Weight (pcf)	123.1	105.2	109.7	117.8
Water Content%	12.8	20.8	19.3	19.0
Diameter cm	4.74	4.78	4.72	4.57
Length Cil	5.06	6.87	6.98	6.81
Saturation 3 Value	1.0			1.0
Permeability K cm/sec	2 X 10 ⁻⁸	1 x 10 ⁻⁸	3 X 10 ⁻⁷	3 X 10 ⁻⁸



D.

Unknown. All disposal of wastes covered by the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 at the site in question was unauthorized by Penn Central, and is believed to have been carried out during a period or periods of time when the premises were subject to lease agreements. Respondent itself has not occupied the premises for at least 15 years. A large volume of liquid waste was found in the summer of 1980 in the basement of a grain elevator formerly on the premises. The liquid waste was pumped out of the elevator at the sole expense of Penn Central in the summer of 1980. Thereafter, with the concurrence of local and state government officials, the elevator was demolished. It has been alleged by the State of Illinois that wastes may have been deposited on other portions of the premises by persons other than Penn Central Corporation employees at times unknown. Penn Central has no present knowledge of the presence of nature of such wastes.

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Ε.

The general nature of any such waste presently on the premises is unknown. (See response to D). 300,000 gallons were removed from the grain elevator in the summer of 1980 by Chemical Waste Management of Illinois. The Illinois Environmental Protection Agency required testing of this waste prior to the issuance of a disposal permit. Testing revealed that the waste was 99.4% water with .6% consisting of NA and CA salts. Additionally, the following was found in the testing: CN, 1.0 ppm; CD, 0.1 ppm; CR, 0.5 ppm; sulphide,77.5 ppm; CU, 0.4 ppm; HG 0.1 ppm; NI, 1.0 ppm; PB, 0.1 ppm; ZN, 0.4 ppm; and PCB, less than 100 ppb.

MA

The source or sources of these materials are unknown.



SPECIFICATIONS

U.S. SCRAP CORP. to furnish WORKMEN, Supply all required Equipment, acquire CLAY cover and furnish all necessary MATERIALS to perform the work as described herein. THE ENGINEER WILL SET LINE and GRADE STAKES @ 50' intervals for the construction of DITCHES, PONDS, CULVERTS, and ACCESS ROAD. All filled material (possibly containing pollutants) shall be removed down to the original ground surface in the area, where the DITCH and ROAD construction is planned, between STATIONS 9 & 15+70. The DITCH shall be excavated and formed to the section as shown and to the line and grades as shown on this drawing 852-1. CLAY or CINDERS from the DITCH excavation may be used for the ACCESS ROAD ballast. The ACCESS ROAD shall be constructed to the line and grade as shown on this druwing. During the construction of the DITCH and ROAD & clay seal shall be placed over the remaining exposed filled material between STATIONS 9 & 15170. During the period following the DITCH and POND construction there shall be periodical pumping of pollutents from the PONDS to maintain a water level sufficiently low enough to prevent overflow onto 14.5.D. property.

The pumped pollutants shall be healed to an approved disposal site for processing to non-toxic liquids and residues. At completion of the above work and ofter approval by the M.S.D. of the effluent quality; a 12" corrugated galvanized steel culvert shall be placed to drain the PONOS Easterly to the M.S.D. Storm Water drainage Dilch.

At a site approximately & mile to the East of the U.S. Scrap property there is the following required work: Remove the fill meterial along the M.S.D. Pence for a width of D' Depotential activity of Beyond the East building well to 50' beyond the Mest building of the Water table.

The meterial shell be spread to the North of the building and compected.

The basement of the building shell be pumed of any became pollutents for tested by the politicity which shell be housed to an approved treatment site.

BE SURE NAME, BUSINESS AND SADDRESS MATCH YOUR FILE.

CONTINUOUS

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FULL FEVISION

D-U-N-S NO. Ob-441-9591 U. S. SCRAP COPPORATION

VOTONIZIONS 21PE LITE NOTONIZION (Z) NOIZIVIA NO (Z3) NOIZIVIA (Z5) NOIZIVIA NOIZIVI

APR 05 1976

CHEMICAL & LIQUID WASTE SCAVENGER

SIC NOS.

SUMMARY

RATING ---

STARTED 1957

PAYMENTS UNDETERMINED SALES \$1,000,000

EMPLOYS 32(4 HERE)
HISTORY CLEAR

HISTORY CLEAR FINANCING SECURED

STEVE MARTELL, PRES

PAYMENTS

Undetermined.

FINANCE

On Apr 8 1976 principals were absent,

On Oct 4 1974, a suit in the amount of none indicated was entered against U. S. Scrap Corp by Metropolitan Sanitary District in Equity Court (Docket *74CH=6160). File was out Mar 5 1975.

On Mar 1 1974, a suit in the amount of \$4.705 was entered against U. S. Scrap Corp by Garvey Grain Inc in Municipal Court (Docket *74m1-106947). Pending as of Feb 25 1975.

On Jan 14 1975, a suit in the amount of \$6,500 was entered against U. S. Scrap Corp by Robert W. Blanchette, Richard C. Bond in Municipal Court (Docket #75M1-180759). No further action as of Feb 24 1975.

On Mar 12 1973, a financing statement was filed listing U. S. Scrap Inc as debtor and Thorp Commercial Corb as secured party. Collateral consists of equipment and proceeds.

On Mar 28 1973, a financing statement was filed listing U. S. Scrap Inc as debtor and Thorp Commercial Corp as secured party. Collateral consists of equipment and proceeds.

On Dec 12 1974, a financing statement was filed listing U. S. Scrap Inc as debtor and Exchange National Bank of Chicago as secured party. Collateral consists of caterpillar and equipment.

On Mar 31 1974, a financing statement was filed listing U. S. Scrap Inc as debtor and Exchange National Bank as secured party. Collateral consists of equipment, proceeds and products.

On Nov 14 1974, a financing statement was filed listing U. S. Scrap (orp as debtor and Riverdale Bank as secured party. Collateral consists of general intangibles, proceeds and products.

On Nov 14 1974, a financing statement (*74650353) was filed listing U. S. Scrap (orporation as debtor and Riverdale Bank as secured party. Collateral consists of installment contracts and security agreement Nov 18 1971.

On date unknown, a suit in the amount of \$116 was entered against U. S. Scrap Corp by Manufacturers News Inc in Circuit Court (Docket \$75M1-14077).

On Jun 19 1975, a suit in the amount of \$2,985 was entered against U. S. Scrap Corporation and one other by Allstate Appraisal Inc (Docket *75%1-131090).

on Arm & 1975, a judgement was entered in the amount of #2,705 against U. S. Scrap Corp in favor of Slag & Ballast Co in Circuit (CONTINUED)

THIS REPORT, FURNISHED PURSUANT TO CONTRACT FOR THE EXCLUSIVE USE OF THE SUBSCRIBER AS ONE FACTOR TO CONSIDER IN CONNECTION WITH CREDIT, INSURANCE, MARKETING OR OTHER BUSINESS DECISIONS, CONTAINS INFORMATION COMPILED FROM SOUNCES WHICH DUN & BRADSTREET, INC. DOES NOT COUTROL AND APDRE INFORMATION - UNLESS OTHERWISE INDICATED IN THE REPORT, HAS NOT BEEN VERIFIED. IN FURNISHING THIS REPORT, DUN & BRADSTREET, INC. DOES NOT GUARANTEE THE ACCURACY, COMPLETENESS, OR THE INFORMATION PROVIDED, AND THALL NOT BE LIABLE FOR ANY LOSS OR INJURY WHATEVER RESULTING FROM CONTINGENCIES BEYOND ITS CONTECL OR FROM NEGLIGENCE.

and the state of t

FINANCE Court (Entry *75M1-125112).

(Contid)
HISTORY

STEVE MARTELL, PRES

DIRECTORS: The officers

DAVID HEAD. ZEC

Incorporated Illinois on Jan 11 1971. Authorized capital consists of 100,000 shares common stock, no par value. Business started 1957 as sole ownership by Steve Martell.

MARTELL born 1929 and single. Welder by trade. 1955 to 1957 employed by Hallard Zubenoff and in 1957 started this business. HEAD born 1924 and single. Salesman for Polk Brothers before

starting here in 1960.

OPERATION Operates an industrial scavenger service specializing in the hauling of liquid and chemical waste. Approximately 200 accounts. Terms of sale are net 10 days. Has fleet of nine tractors and over 100 trailers.

EMPLOYEES: 32 employees with 4 here.

LOCATION: At 39% E. Kensington rents 3.000 square feet on first floor of three story brick building in good condition located in industrial section on well traveled street. Premises are neat.

BRANCHES: At 400 E. 123rd Street, also known as 12300 S. Park, has ten acres of land where equipment is kept, maintains branch at 7537 W. 9th Avenue, Gary, Indiana. 25 acres there. This location presently being developed for use by this business.

D4-17(535 /41m) 1483/0507231

15 005 H

THIS REPORT. FURNISHED PURSUANT TO CONTRACT FOR THE EXCLUSIVE USE OF THE SUBSCRIBER AS ONE FACTOR TO CONSIDER IN CONNECTION WITH IMPOUNDED INSURANCE, MARKETING OR OTHER BUSINESS DECISIONS, CONTAINS INFORMATION COMPILED FROM SOURCES WHICH DUN & BRADSTREET, INC. DOES NOT CONTAINS INFORMATION UNLESS OTHERWISE INDICATED IN THE REPORT, HAS NOT BEEN VERIFIED, IN FURNISHING THIS REPORT, DUN & BRADSTREET, INC. TO ASSUMES ANY PART OF THE USER'S BUSINESS RISK, DOES NOT GUARANTEE THE ACCURACY, COMPILETENESS OR TIMELINESS OF THE UPCOMMATION PROVIDED AND LOCATION OF THE UNITS OF THE UPCOMMATION PROVIDED TO THE UPCOMMATION P

EVENTS:

U.S. EPA SUPERFUND PROGRAM

REGION, STATE, SITE NAME ALL SEQUENCE:

PAGE: 150 RUN DATE: 04/18/89 RUN TIME: 23:46:50

VERSION:

1

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LIST-8: SITE/EVENT LISTING

1	(2)				2110, 5.0				1111510	
mendel 4. Applicate to design plant	Ö	EPA ID NO.		STATE ZIP CONG DIST.	NFA. <u>FLAG</u>	OPRBLE UNIT	EVENT TYPE	ACTUAL START DATE	ACTUAL COMPL DATE	CURRENT EVENT LEAD
	t 3									
	<i>t.)</i>	IL8143609487	US DOI SANGAM CRAB ORCH NE ORDILL IND AREA CARTERVILLE 199 WILLIAMSON	IL 62918 IL-22		00	DS1 PA1 HR1 NP1		04/01/79 06/01/83 08/01/84 10/15/84	EPA (FUND) STATE (FUND) OTHER EPA (FUND)
	\$ 2						SI1 CO1	02/26/86	08/01/84	EPA (FUND) FED. FAC.
,			•			01		02,20,00		ILD. I AC.
,	Q.	ILD980679401	US DRUM 135TH & HOXIE	T. (0(20	·	00	DS1 PA1		06/01/80 12/01/83	EPA (FUND) STATE (FUND)
p	<i>\$</i>		CHICAGO 031 COOK	IL 60628 IL-02			HR1 SI1	03/01/84	04/06/84 04/01/84	EPA (FUND) EPA (FUND)
•	√J/	ILD981961667	US DRUM II 2400 E 119TH ST CHICAGO	T. (0(17		00	DS1		09/01/87	
>	3		031 COOK	IL 60617 IL-02						
>	39	ILD045063450	US ECOLOGY INC SHEFFIELD 3MI SW OF RTE 34 SHEFFIELD	IL 61361	NFA	00	DS1 PA1 HR1		04/01/79 02/01/83 08/01/84	EPA (FUND) STATE (FUND) OTHER
9	<i>)</i> -		011 BUREAU	IL-17		01	NP1 SI1 CR1		10/15/84 08/01/84	EPA (FUND) EPA (FUND) FED ENFORCE
9	ઝ					72	CO1 CO2 LR1		10/14/85	STATE (FUND) RESP. PARTY RESP. PARTY
9	ن							11 , 1, 1, 1		
9	Ü	ILD005078126	US IND CHEM CO US 36 3MI W OF US 45 TUSCOLA	IL 61953		00	DS1 PA1 SI1	09/01/84	04/01/79 01/01/83 09/01/84	EPA (FUND) OTHER EPA (FUND)
3	i		041 DOUGLAS	IL-22						• •
	Ų	11-0980679484	US-SCRAP 123RD & COPTAGE GROVE CHICAGO 0317 COOK	TL 60628 TIL 01	N P.A	00		08/16/85	3614/237/336 3107/01/8/0 3127/14/8/7	EPA (FUND) STATES (FUND)
	Ų		COLUMN TO THE PARTY OF THE PART				\$10 M = 18 M	Jour/2014/2014	+011VA0314/352	- PA (PUND)
. : 4	w .	ILD005454566	US STEEL CORP JOLIET WORKS 927 COLLINS ST JOLIET 197 WILL	S IL 60432 IL-17	NFA	00	DS1 PA1 SI1	10/01/84	08/01/80 09/01/84	EPA (FUND) STATE (FUND) EPA (FUND)
•				_ ·			}			

ALL

EVENTS:

LEVEL: REG 05

U.S. EPA SUPERFUND PROGRAM
SELECTION: SEQUENCE: REGION, STATE, CNTY CODE, SITE ** C E R C L I S **

EVENTS: ALL

PAGE: 33 RUN DATE: 09/13/89 RUN TIME: 10:31:03

LIST-3: SITE/EVENT LISTING

VERSION: 1

			-					•
EPA_ID_NQ	SITE NAME STREET CITY COUNTY_CODE_AND_NAME	STATE ZIP CONG_DIST=	NFA. ELAGL	OPRBLE	EYENI_IYPE	ACTUAL START _DATE	ACTUAL COMPL DAIS	CURRENT E v ent Lead
ILD980902043	L.H.L. #2 116TH & N & W RR CHICAGO 031 COOK	IL 60617 IL-02		00	DS1 PA1 HR1 SI1	07/61/84	02/01/84 07/01/84 12/18/86 07/15/86	EPA (FUND) STATE(FUND) EPA (FUND) EPA (FUND)
,	- LAKE-GALUMET QUAD 810 E-1241H-SI - CHIGAGO. - 031 = COOX		ir	00	DS1 PA1 HR1 SI1	03/14/36	06/01/81 03/01/83 11/06/86 07/08/86	EPA (FUND) STATE(FUND) EPA (FUND) EPA (FUND)
ILD000605469	LAKE EDFL INC 1300 WILLOW RD NORTHBROOK 031 COOK	IL 60062 IL-10	·	00	0 S 1 P A 1		04/01/79 05/01/33	EPA (FUND) State(fund)
ILD076875285	LAKE SALVAGE CO 2527 W LAKE ST CHICAGO 031 COOK	IL 60612 IL-07		00	0 S1 PA1		07/27/38 01/06/39	STATE(FUND) STATE(FUND)
ILD028710929	LAND & LAKE 1220 E 138TH ST DOLTON 031 COOK	IL 63419 IL-03	NFA	00	DS1 PA1 SI1	07/01/34	04/01/79 07/01/84 09/12/36	EPA (FUND) STATE(FUND) EPA (FUND)
ILD000672790	LAND 3 LAKE #3 NE COR 122ND 3 STONY ISLA CHICAGO 031 COOK	IL 60617 IL-01	· •	00	DS1 PA1 SI1	06/24/86	08/01/30 06/11/37 06/11/37	EPA (FUND) EPA (FUND) EPA (FUND)
ILD980498075	LAND & LAKES CO 123 N NORTHWEST HWY PARK RIDGE 031 COOK	IL 60068 IL-06	NFA	00	DS1 PA1		09/01/30 02/01/84	EPA (FUND) OTHER
ILD981531882	LAND AND LAKES #2 E 138TH ST & COTTAGE GROV CHICAGO 031 COOK	IL 60627		00	051 PA1 SI1		12/01/85 02/05/86 09/13/36	STATE(FUND) EPA (FUND) EPA (FUND)



ecology and environment, inc.

223 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60606, TEL. 312-663-9415

International Specialis	sts in the Environmental Sciences
DATE:	March 1, 1983
TO:	File/USEPA Region V
FROM:	File/USEPA Region V Paul D. Shea
SUBJECT:	Preliminary Assessment
	Illinois/TDD#RO5-8212-01A-158 Chicago/No Name TL: CALVAGE QUAD ILD980606362 Office Name L: CALVAGE QUAD
Attached i the above	s EPA's Preliminary Assessment Form 2070-12 for referenced site.
Primary in	formation was gathered from the following source(s):
	1. USEPA Erris Files - Region V, Chicago
	2.
	3.
be listed.	2
	1. Unknown
	2.
	3.
Presently, key area(s	data gaps or no verification exists in the following):
	1. Waste quantity
	2. Groundwater/surface water/soil contamination
	3. Direct contact, fire/explosive, biota damage
	f the available data indicates that additional in will be necessary to assess the impact(s) on:
	1. Waste quantity
	2. Groundwater
	3. Surface water
	4. Fire/explosive
	5. Direct contact

Suggested methods/sources for obtaining additional information are:

- 1. Sampling/monitoring
- 2. On site inspection
- 3. Off site inspecton

Not	ice	of	an	apparent	need	for	emergency	action	was	transm	itted
to	N/A						or	N/A			
bv	NT /70										

WIII

812, 886-4

RASY YEAR HINGH

DE DATE

07 TELEPHONE NUMBER)

POTENTIAL HAZAF	RDOUS WASTE SITE LIDENTIFICATION					
	ASSESSMENT IL D980606362					
PART 1 - SITE INFORMA	ITION AND ASSESSMENT					
IF SITE NAME AND LOCATION	TO2 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER					
NO NAME - UNKNOWN	810 E. 124TH ST./12400S. COTTAGE GA					
CHICAGO	TL 60628 COOK 031 2					
087°36′15.0″.	TOPO MAP: L. CALUMET QUAD					
10 DIRECTIONS TO SITE (Salting from measural public sound) T37N, R14	E					
CALUMET EXPRESSWAY TO 130	TH STREET. GO WEST ON 130TH					
TO COTTAGE GROVE AVE. GO NO	RTH ABOUT 1/2 MILE AND SITE WILL					
III. RESPONSIBLE PARTIES BE ON LEPT SIDE OF	ROAD					
PENN CENTRAL CORP	1700 MARKET STREET					
PHILADELPHIA	04 STATE DS ZIP CODE					
07 OPERATOR IN KNOWN AND OFFICE AND IN THE OFFICE AND O	OB STREET (Suseriess, making, residential)					
MR. DEMETRI KONSTANTELOS	9501 W. DEVON					
DBCTY	10 STATE 11 ZIP CODE 12 TELEPHONE NUMBER					
ROSEMONT	IL 60018 312,692-7192					
3 TYPE OF OWNERSHIP (Check one) A. PRIVATE □ B. FEDERAL: (Ayency name) D F. OTHER:	☐ C. STATE ☐ COUNTY ☐ E. MUNICIPAL ☐					
(Specify) 14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that gaply):						
	LED WASTE SITE (CERCLA 103 c) DATE RECEIVED: 6,9,81 D.C. NONE					
IV. CHARACTERIZATION OF POTENTIAL HAZARD						
O1 ON SITE INSPECTION O YES DATE MONTH DAY YEAR BY (Check as line; apply) O A. EPA D E. LOCAL HEALTH OFF	A CONTRACTOR D. C. STATE D. D. OTHER CONTRACTOR					
KNOWN CONTRACTOR NAME(S):						
2 SITE STATUS (Cheek pro) B. A. ACTIVE D. B. INACTIVE D. C. UNKNOWN BEGINNING YEAR ENDING YEAR BUNKNOWN						
DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT. KNOWN, OR ALLEGED HEXANE (LOW TOXIC, VOLATILE, FLAMMABLE), HEAVY METALS						
PCB (TOXIC, PERSISTENT) (TOXIC, PERSISTENT)						
LEACH INTO GROUNDWATER (POPULATION?)						
RUNDEF INTO SURFACE WATER						
TRE EXPLOSIVE LEVAC.						
RITY FOR INSPECTION (Check une. 8 high or medium is checked, complete Part 2 · Weste offe	urmation and Part 3 - Description of Inazaroous Conditions and Incidental					
A. HIGH D. B. MEDIUM D. C. LOW (Inspection required promothy) (Inspection required) (Inspect on time	D. NONE [No luther action needed, complete current disposition form)					

USEPA

CHICAGO

70-12(7-81)

ORMATION AVAILABLE FROM CT ERRIS FILES

KATHY FREEMAN

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

APLIA	PART 3 - DESCRIPTION OF H	AZARDOUS CONDITIONS AND	INCIDENTS	0980606362
II. HAZARDOUS CONDI				
01 TA GROUNDWATE 03 POPULATION POTEN	TIALLY AFFECTED: >10,000	02 D OBSERVED (DATE: 04 NARRATIVE DESCRIPTION) DOTENTIAL	D ALLEGED
POTENT	TAL LEACHING	OF CONTAMINA	ants into G	ROUNDWATE
IF	WASTE FOUND ON	1 PORTIONS OF G	ROUNDS OTHER	2 THAN
01 B. SURFACE WATE	ER CONTAMINATION >10 POO	02 D OBSERVED (DATE:	POTENTIAL	D ALLEGED
ONLY ASSUM	ED IF RUNOFF	OF CONTAMIN	IANTS REACI	tes
SEL	her System of	R BODY OF WAT	rer.	
01 D C. CONTAMINATION POTEN	ON OF AIR ITIALLY AFFECTED:	02 D OBSERVED (DATE:) DOTENTIAL	□ ALLEGED
•				
		•	•	
01 D. FIRE/EXPLOSIV	E CONDITIONS TIALLY AFFECTED: >10,000	02 C OBSERVED (DATE:) POTENTIAL	■ ALLEGED
_	- ALLEGEDLY .PRE		ENT OF SUO	· .
· ·	- DANGEROUS FIR			
01 B E. DIRECT CONTA 03 POPULATION POTEN	CT TIALLY AFFECTED: 710,000	02 D OBSERVED (DATE:) . B POTENTIAL	□ ALLEGED
	ALLEGEDLY DE	•	ER PORTIONS	OF THE .
	MISES BY UNKA			
01 D F. CONTAMINATIO	AFFECTED: 2	02 D OBSERVED (DATE:	POTENTIAL	■ ALLEGED
CONTA	MINANTS POTENT	DALLY AFFECTES	SOIL THROUGH	SH
	HT DUMPING -> AL			
01 [] G. DRINKING WATE	ER CONTAMINATION	02 D OBSERVED (DATE) D POTENTIAL	D ALLEGED
		·		•
,				•
01 B H. WORKER EXPO	DSURE/INJURY SALLY AFFECTED: \$\frac{120}{20}\$	02 D OBSERVED (DATE:	POTENTIAL	□ ALLEGED
		LD POTENITIALLY	RE EXPOSED) .
	NUP CREW WOU TO CONTAMINA	NTS.		-
	POSURE/INJURY TIALLY AFFECTED: >10,000	02 D OSSERVED (DATE:	POTENTIAL	D ALLEGED
	DON POTCAIDAL		CONTOMATATA	NITS

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION

1 STATE 02 SITE NUMBER

IL D980606362

PART 3 - DESCRIPTION OF TA	ZARDOUS CONDITIONS AND INCIDENT	<u> </u>	
II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)			
D1 J DAMAGE TO FLORA D4 NARRATIVE DESCRIPTION	D2 D OBSERVED (DATE:)	POTENTIAL	D ALLEGED
ASSUMED IF WASTE WASTED	AS SPREAD OVER OTH PROPERTY	ter port	2NO
01 S K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (include name(a) of apecies)	D2 D OBSERVED (DATE:)	■ POTENTIAL	D ALLEGED
REFER TO ITEM J.			
01 L CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	POTENTIAL	[] ALLEGED
REFER TO ITEM J.			
01 M. UNSTABLE CONTAINMENT OF WASTES	02 - OBSERVED (DATE: 1980)	POTENTIAL.	■ ALLEGED
(Scills-runnstitistanding liquids-heaking assistant) > 10,000	04 NARRATIVE DESCRIPTION		
A LARGE VOLUME OF LIQUID WAS		MMER OF 1	980 IN
THE BASEMENT OF A GRAIN ELEV	ATOR. WASTE WAS PUMPED	OUT, AND AL	LEGEDLY
WASTE WAS DEPOSITED ON OTHER PORTO 01 N. DAMAGE TO OFFSITE PROPERTY	OS OF THE PREMISES BY UN OS OBSERVED (DATE:)	E POTENTIAL	☐ ALLEGED
04 NARRATIVE DESCRIPTION	or B observed towns.	5 , 5 , 2 , 2	S ALCOLD
			•
01 ■ 0. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPS 04 NARRATIVE DESCRIPTION	O2 C OBSERVED (DATE:)	■ POTENTIAL	☐ ALLEGED
POTENTIAL IF WASTE'WA	AS DEPOSITED IN POR	TIONS OF	LAND
WHERE RUNOFF COULD	•		
01 P. ILLEGAL/UNAUTHORIZED DUMPING		POTENTIAL	— ALLECED
04 NARRATIVE DESCRIPTION	02 🗆 OBSERVED (DATE:)	POTENTIAL	ALLEGED .
LIQUID WASTES DUMPED IN	· · · · · · · · · · · · · · · · · · ·		
AND POSSIBLY ON PREMI	SES.		
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLE			
* ABANDONED WASTES IN SIL	0 were removed in 19	80	-
OTHER WASTES MAY BE			
NORLING FACTOR -> 19	•		
III. TOTAL POPULATION POTENTIALLY AFFECTED:	0,000		
IV. COMMENTS			
ALL DISPOSAL UNAUTHORIZED	BY PENN CENTRAL, A	WO IS BELL	EVED TO
HAVE BEEN CARRIED OUT OU	RING A PERIOD OF TIME	WHEN TH	~
DREMISES WERE SUBJECT TO L	FASE AGREEMENTS D	enn Centra O	GONEFOR
V. SOURCES OF INFORMATION (Cae.soozide retorences. e.g. state lies.	sample analysis, reports;		15 YEARS
USEPA ERRIS FILES - REGION	V. CHICAGO.IL		
OCCITIC TIES			•

N 23 1982 Levelds

WILDMAN, HARROLD, ALLEN & DIXON

ONE IBM PLAZA

CHICAGO, ILLINOIS 60611

(312) 222-0400 CABLE: WHAD

TELEX: 206429

HELAINE WACHS HEYDEMANI
WILLIAM J. ROGERS
JOHN M. STALMACK
ANNE GIDDINGS KIMBALL
HARRY GOLTER
WILLIAM A. HOLMOUIST
JOHN D. SCHWARTZ
ROBERT S. SOLOMON

ATLANTA LONDON MEMPHIS WAUKEGAN

117980606362

ANN C. PETERSEN ANN C.PETERSEN
YOUNG KIM
JAMES R. MORRIN
RUTH E.VAN DEMARK
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KIRK M. McINERNEY KIRK M. McINERNE: PETER A. TOMARAS JOAN M. FENCIK CAROL J. BAKER BARRY J. MILLER DAVID S. REES DAVID R. BARRY, JR. STEVEN E. DANEKAS

November 22, 1982

Mr. Richard Bartlet (Sic) Region 5 Superfund Coordinator U.S. EPA - Region 5 111 West Jackson Boulevard

LAWRENCE J. WEST

JOHN C. LOBB

MARK C. FEDOTA
ROBERT E. KEHOE. JR.
MICHAEL L. MCCLUGGAGE
ROBERT E. HALEY
EDWARD T. BUTT, JR.
BARRY G. BOLLINGER
H. RODERIC HEARD
JAMES A. CHRISTMAN

JOHN L. EISEL DONALD FLAYTON KAY L. SCHICHTEL HELAINE WACHS HEYDEMANN

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THOMAS D. ALLEN STEWART S. DIXON MAURICE J. GARVEY HOWARD T. BRINTON

SHELDON P. MIGDAL ROBERT M. GUNN RICHARD C. BARTEL JERALD P. ESRICK LENARD C. SWANSON

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KEVIN T. MARTIN
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DOUGLAS R. CARLSON
JAMES R. DORR

GEORGE W. OVERTON

HAROLD W. HUFF JOHN C. L. KATHERYN M. DUTENHAVER

JOHN J. ARADO

Chicago, Illinois 60604

Dear Mr. Bartlet:

Confirming our telephone conversation of November 18, 1982, I would like to advise you that further research indicates that the notification of hazardous waste site submitted pursuant to §103(c) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 on behalf of my client, Penn Central Corporation, with respect to the site located at 2810 East 124th Street or 12400 South Cottage Grove, Chicago, Illinois was incorrect in one respect. I would like to provide you with the information necessary for its amendment.

I am enclosing a xerox of the original form which was filed for your reference. Under Section E, as discussed on the attached sheet, a statement was made that 300,000 gallons were removed from the grain elevator in the summer of 1980 by Chemical Waste Management of Illinois. Further investigation has shown that two removal operations were conducted. Three hundred thousand gallons were removed in the initial operation. However, a second operation later removed an additional 100,000 gallons. a result, Section E should be amended to reflect that a total of 400,000 gallons were removed from the grain elevator in the summer of 1980 by Chemical Waste Management of Illinois.

Should you wish this amendment to be in a more formal form, I would be happy to oblige. If you have any questions on this matter, please do not hesitate to contact me.

Very truly yours,

WILDMAN, HARROLD, ALLEN & DIXON

Elise E. Singer

EES/md Enc.

This i	nitial notifica	ition infor	mation is
			the Compre-
hensi	ve Environme	intal Respo	onse, Compen
sation	i, and Liability	Act of 19	80 and must
be ma	alled by June	9, 1981.	

Please type or print in ink, If you need additional space, use separate sheets of paper. Indicate the letter of the item which applies.

be maneu by June 9, 1901.					
Person Required to Notify: Enter the name and address of the person or organization required to notify.		Penn Ce	ntral Corp	oration	
				& Company, I	nc.
		Street 1700 Ma	rket Stree	t	
		City Philade	lphia	State PA	Zip Code 19103
Site Location:		** 		, , , , , , , , , , , , , , , , , , , 	
Enter the common name (if know	vn) and	Name of Site			·
actual location of the site.		Street 810 East	t124th St.	/12400 South (Cottage Grove
		City Chicago	County	Cook State IL	Zip Code
Person to Contact:				Konstantelos	
Enter the name, title (if applicable		Name (Last, First and Title		-	
business telephone number of the to contact regarding information	ie person	Phone	(312) 69	2-7192	
submitted on this form.					
Dates of Waste Handling:			····		···
Enter the years that you estimate	e waste			Y7:- 1-:	
treatment, storage, or disposal be ended at the site.	egan and	From (Year)	To (Year)	Unknown.	
ended at the site.				(SEE ATTACHE	ED SHEET)
Waste Type: Choose the option	on you pro	efer to complete			
		•	I Ontion 2: Ti	his antion is musilable to	a parsons familiar with the
Option I: Select general waste to you do not know the general was encouraged to describe the site it	ste types or	sources, you are	Resource Co		o persons familiar with the ry Act (RCRA) Section 300
General Type of Waste:	Source of	of Waste:	Specific Typ	pe of Waste:	
Place an X in the appropriate	Place an	Place an X in the appropriate		iigned a four-digit numb	ber to each hazardous was
boxes. The categories listed overlap. Check each applicable	boxes.				tion 3001 of RCRA. Enter t e boxes provided. A copy o
category.					ides can be obtained by the State in which the site
			located.	ie ErA Region Serving	the State in which the site
1. Organics	1. 🗆 Mi	-			
2. □ Inorganics3. □ Solvents	2. ☐ Co 3. ☐ Te:	nstruction			
4. D Pesticides	3. ☐ Fe				
5. Heavy metals		per/Printing			_
6. □ Acids		ather Tanning			
7. 🗆 Bases		n/Steel Foundry			-
8. PCBs		emical, General			-
9. Mixed Municipal Waste		iting/Polishing			
10. 🗆 Unknown		litary/Ammunition			
11. Other (Specify)	11. 🖾 Ele	ectrical Conductors 🦟			
(SEE D)	12. 🛭 Tra	insformers	L		——————————————————————————————————————
(SEE_ATTACHED_SHEET)		lity Companies			
		nitary/Refuse			
	15. 🖸 Ph				
		b/Hospital	, , , , , , , , , , , , , , , , , , ,	a + \	ı
		known (See att	acnea she	et)	
	18. t.J Ut	her (Specify)			
Torm Approved CIMB No. 2000 0138					

, ,	Notification of Hazardous Waste S	Side Two		
ī.	Waste Quantity:	Facility Type	Total Facility Waste Amount	
	Place an X in the appropriate boxes to indicate the facility types found at the site.	 □ Piles □ Land Treatment 	gallons 400,000 fw 11/22/5.	i fetti
,	In the "total facility waste amount" space give the estimated combined quantity (volume) of hazardous wastes at the site using cubic feet or gallons.	3. □ Landfill 4. □ Tanks	Total Facility Area	
		5. 🗆 Impoundment	square feet 49,500	
	In the "total facility area" space, give the estimated area size which the facilities * occupy using square feet or acres.	6. Underground Injection7. Drums, Above Ground8. Drums, Below Ground	acres	
	., .	9. M Other (Specify) Hexane]	pollutants abandoned in ba	ıse-
G	Known, Suspected or Likely Releases		gram erevaror	
	Place an X in the appropriate boxes to indica or likely releases of wastes to the environment		□ Known □ Suspected □ Likely □ NUNknown.	Vone
	Note: Items Hand Lare optional. Completing hazardous waste sites. Although completing	g these items will assist EPA and State g the items is not required, you are enc	and local governments in locating and assecuraged to do so.	ssing
H	Sketch Map of Site Location: (Options Sketch a map showing streets, highways, routes or other prominent landmarks near the site. Place an X on the map to indicate the site location. Draw an arrow showing the direction north. You may substitute a publishing map showing the site location.	al)	:	
		1		
			•	
1	Description of Site: (Optional)			
	Describe the history and present conditions of the site. Give directions to the site and describe any nearby wells, springs, lakes, or housing. Include such information as how waste was disposed and where the waste came from. Provide any other information or comments which may help describe the site conditions.	See respons	se to D.	
			•	
	Signature and Title:	Demetri Konstantel		
	The person or authorized representative	Name Real Estate Manage		ent
	(such as plant managers, superintendents, trustees or attorneys) of persons required to notify must sign the form and provide a mailing address of different than address.	Penn Central Corpo Street 9501 West Devon	Oration	
	mailing address (if different than address in item A). For other persons providing notification, the signature is optional Check the boxes which best describe the	City Rosemont State	IL z _{ip} C _{Ode} 60018 ☐ Operator, Pre☐ Operator, Pas☐ Other	

Unknown. All disposal of wastes covered by the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 at the site in question was unauthorized by Penn Central, and is believed to have been carried out during a period or periods of time when the premises were subject to lease agreements. Respondent itself has not occupied the premises for at least 15 years. A large volume of liquid waste was found in the summer of 1980 in the basement of a grain elevator formerly on the premises. The liquid waste was pumped out of the elevator at the sole expense of Penn Central in the summer of 1980. Thereafter, with the concurrence of local and state government officials, the elevator was demolished. It has been alleged by the State of Illinois that wastes may have been deposited on other portions of the premises by persons other than Penn Central Corporation employees at times unknown. Penn Central has no present knowledge of the presence of nature of such wastes.

. D.

E. The general nature of any such waste presently on the premises is unknown. (See response to D). 300,000 gallons were removed from the grain elevator in the summer of 1980 by Chemical Waste Management of Illinois. The Illinois Environmental Protection Agency required testing of this waste prior to the issuance of a disposal permit. Testing revealed that the waste was 99.4% water with .6% consisting of NA and CA salts. Additionally, the following was found in the testing: CN, 1.0 ppm; CD, 0.1 ppm; CR, 0.5 ppm; sulphide,77.5 ppm; CU, 0.4 ppm; HG 0.1 ppm; NI, 1.0 ppm; PB, 0.1 ppm; ZN, 0.4 ppm; and PCB, less than 100 ppb.

The source or sources of these materials are unknown.

Notification c. Hazardous Waste Site.

United States **Environmental Protection** Agency Washington DC 20460

This initial notification information is

Please type or print in ink. If you need additional space, use separate sheets of paper. Indicate the letter of the item

required by Section 103(c) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 and must which applies. 810609 be mailed by June 9, 1981. IL #167 1LS-000-001 Penn Central Corporation Person Required to Notify: victor Palmieri & Company, Inc Enter the name and address of the person or organization required to notify. 1700 Market Street Street Philadelphia State PA 19103 Zip Code City Site Location: Inknows Name of Site Enter the common name (if known) and actual location of the site. 810 East 124th St./12400 South Cottage Grove 0980606362 Chicago County Demetri Konstantelos, DEMET Person to Contact: Name (Last, First and Title) Real Estate Manager Enter the name, title (if applicable), and business telephone number of the person (312) 692-7192Phone to contact regarding information submitted on this form. **Dates of Waste Handling:** Enter the years that you estimate waste Unknown. From (Year) To (Year) treatment, storage, or disposal began and ended at the site. (SEE ATTACHED SHEET) Waste Type: Choose the option you prefer to complete Option I: Select general waste types and source categories. If Option 2: This option is available to persons familiar with the you do not know the general waste types or sources, you are Resource Conservation and Recovery Act (RCRA) Section 3001 encouraged to describe the site in Item I-Description of Site. regulations (40 CFR Part 261). **General Type of Waste:** Place an X in the appropriate Source of Waste: Specific Type of Waste: EPA has assigned a four-digit number to each hazardous waste Place an X in the appropriate listed in the regulations under Section 3001 of RCRA. Enter the boxes. The categories listed boxes. appropriate four-digit number in the boxes provided. A copy of overlap. Check each applicable the list of hazardous wastes and codes can be obtained by category. contacting the EPA Region serving the State in which the site is located. 1.
Organics 1.
Mining 2. Inorganics 2.

Construction 3.

Solvents 3.

Textiles 4.

Pesticides 4.

Fertilizer 5.

Heavy metals 5.
Paper/Printing 6. Acids 6.

Leather Tanning 7.
Bases 7. Iron/Steel Foundry 8.
PCBs 8.

Chemical, General 9.

Mixed Municipal Waste 9.

Plating/Polishing 10. 🗆 Unknown 10.
Military/Ammunition 11. ☐ Other (Specify) 11.

Electrical Conductors (SEE D) 12.

Transformers (SEE ATTACHED SHEET) 13. □ Utility Companies 000056 JUN-981 14. ☐ Sanitary/Refuse 15.
Photofinish 16. ☐ Lab/Hospital 17. ☑ Unknown (See attached sheet)

Form Approved OMB No. 2000-0138 FPA Form 8900-1

JUN 1 0 1981

18. ☐ Other (Specify)

D.

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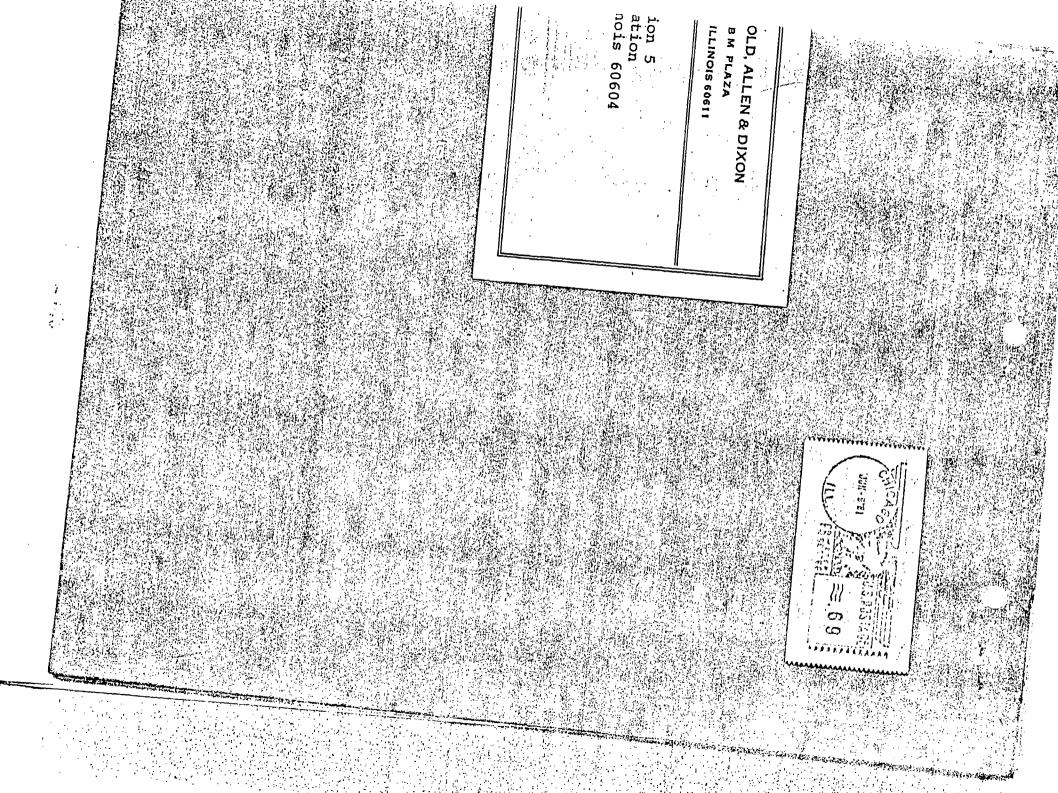
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UD'

The source or sources of these materials are unknown.





DATE:

July 14, 1980

TO:

Division File

FROM:

Brad Benning

SUBJECT:

COOK COUNTY - 03160022 - Chicago/U.S. Scrap-Garvey Elevator

On June 24-27, 1980, Brad Benning representing the IEPA-DLPC, observed the clean-up operation at the Garvey Grain Elevator located on the Penn Central Company property at 121st Street and Cottage Grove in Chicago, Illinois.

Chemical Waste Management of Illinois was contracted to remove a large quantity of a sulfide contaminated liquid from the basement of the elevator. Mr. Tom Tomaszewski General Manger of Chemical Waste and Mr. Jim Konstantelos, of the Penn Central Company, also were present during the clean-up operation. Each load removed was manifested and Chicago/CID received the supplemental permit to receive the waste material.

Vacuum trucks with a capacity of 5,000 gallons were filled, then each truck went to Chicago/CID, where 50 gallons of bleach were added to treat the high sulfide level, then the treated liquid is co-disposed with the general refuse. According to the manifests received from Chemical Waste the amount of liquid waste removed each day was as follows:

June 24	10 Loads	50,000 gallons
June 25	31 Loads	155,000 gallons
June 26 ·	24 Loads	120,000 gallons
TOTAL	65 Loads	325.000 gallons

(5,000 gal/load)

1 Cr A 1 40

Following the removal of the liquid, a sludge material remained, to absorb the liquid from this, approximately 200,000 pounds of Dolomite lime were pumped into the basement. According to Mr. Konstantelos, Penn Central plans to demolish the building to fill in the basement area then level off the area. As of this memo, the elevator has not been demolished.

BB:mg

cc: Bill Child
Northern Region



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BB:mg
cc: Bill Child
Northern Region
Ken Bechely



TO:

 FROM^{\cdot}



DATE. June 23, 1980

Division File

Mary Wang Schroeder

SUBJECT: COOK COUNTY - LPC - 03160022

Chicago/U.S. Scrap-

On April 25, 1980, as part of continuing surveillance of Steve Martell and U. S. Drum (see LPC 03160035 for details), this author decided to conduct an inspection of the U.S. Scrap site to assure that the site had not been reactivated. The Metropolitan Sanitary District of Greater Chicago had been involved in litigation against U.S. Scrap in 1975. The lity of Chicago Environmental Control later joined the case. Because of the involvement of MSD and the City of Chicago it was determined that there was no need for the IEPA to file a case at that time.

At the time of the April 1980 inspection, as best could be determined from the limited information contained in the file, this author believed the U. S. Scrap site was limited to what later became known as the Garvey Elevator site. As documented on the observation evidence of at oil-like waste was observed in several areas along the west edge of the site bordering MSD property. A slight odor of solvent and/or oil like material emanated from the area.

On Friday June 13, 1980 at 3:30pm, Jack Barnette of DWPC-EAC called the Aurora Office to inform the DLPC of a possible hazardous waste site located at approximately 119th Street and Cottage Grove Avenue in Chicago.

On Monday June 16, 1980 Charles Gebien and this author investigated the situation at 119th Street and Cottage Grove Avenue. It was determined that two areas of illicit special or hazardous waste disposal were involved. The first was on land owned by the Penn Central Railroad. An old grain elevator on this property, hereafter referred to as the Garvey Elevator, had had liquid waste pumped into the chutes and surrounding spaces be neath the ground level floor. There were seven open clutes on the ground floor of the Garvey Elevator. Four of these chutes had liquid waste observable at the surface.

The second area of illicit dumping was located approximately 3/- mile to the west. The MSD Calumet Sewage Treatment Plant property separates the two sites. The second site was at least partially owned by U. S. Scrap. In the southeast part of this site there were Light concrete strage tanks. Liquid waste had been pumped into the concrete tank on the northeast corner. An abandoned incinerator was located at the central part of the site. A loading dock was located at the north central part of the site. At the northwest corner of the loading dock there was an area about 20' X 30' in size where ponded liquid had accumulated. The material impossible here was gratish green with a slight oil film on top. There were approximately 400 drums strewn about the site. A rough estimate of those containing waste was about 100. A drainage swale borders the site on the south and

Paxton Landfill Corporation

12201 S. OGLESBY CHICAGO, ILL. 60633 646-9768 646-0981

July 18, 1980

Mr. Wally El-Beck Illinois Environmental Protection Agency 2200 Churchill Rd. Springfield, IL 62706

Dear Mr. El-Beck:

Enclosed are three additional permit applications for the clean-up at 123rd & Cottago Grove Avenue in Chicago.

Steve Martell, as landowner of the clean-up site, has informed me that an error was made in the two original permit applications. The generator on those permits was listed as U.S. Scrap Corp., 12201 King Drive. U.S. Scrap Corp. was not the generator. The generator, and those responsible for the dumping at the site, are unknown.

On the enclosed permit applications, I have labeled the generator "as unknown", and the address as "123rd & Cottage Grove Avenue". This is the address referred to in the agreement and to avoid further confusion, I suggest that we use this address only.

Please note the corrections on the two original applications, and if there is any other information needed, please let me know.

Sincerely,

Dan H. Smith Operations Manager

DHS/dq

Paxton Landfill Corporation

12201 S. OGLESBY CHICAGO, ILL. 60633 646-9768 646-0981

RECEIVED

SEP 1 0 1990

ILC. E.P.A. - D.L.P.C. STATE OF ILLINOIS

September 2, 1980

Mr. James Douglas Andrews Environmental Engineering, Inc. 1320 S. Fifth Street Springfield, IL 62703

Dear Mr. Andrews:

Jack Sauer has asked me to forward the enclosed cover letters and permits. The permits incorrectly list the generator as U.S. Scrap. The waste generators for each permit are unknown as described in the July 18, 1980, cover letter.

It is my understanding through Mr. Sauer, that you will contact the I.E.P.A. and clear-up this matter.

Sincerely

Dan H. Smith

Operations Manager

DHS/dq Encls.

cc: Mr. Whitebloom

Mr. Galley

Mr. Becheley

Paxton Landfill Corporation

12201 S. OGLESBY CHICAGO, ILL. 60633 646-9768 646-0981

June 15, 1950

Mr. Wally El-Beck Illinois Environmental Protection Agency 2200 Churchill Rd. Springfield, IL 62706

Dear Mr. El-Beck:

Paxton Landfill Corporation in involved in an emergency clean-up operation on the numbered U.S. Scrap Corp. property at 119th street and Cottage Grove Avenue.

Enclosed are two applications for supplemental permits for that site. The lab applications for these wastes has been supplied verbally to an by Itanley Whitebloom of the Metropolitan vanitant firstrict and he will make copies available to you if you need them.

Other waste streams are now being analyse land permit applications will soon follow.

Jigcorely,

Dan H. Twilin

Operations languer

DHS/dg encl.



DATE: November 10, 1980

TO: Division File

FROM: Mary Schroeder

SUBJECT: COOK COUNTY LPC 03160022

CHICAGO/U.S. SCRAP

As noted on the October 29, 1980 inspection of U.S. Drum, Dan Smith notified may verbally that they wished to begin clean up of the U.S. Scrap site on Monday, November 3, 1980. When Jay Evans and I arrived on the site on November 3, 1980, a semi trailer was partially loaded with approximately 30 drums. Upon entering the trailer, it was noted that some of the drums were not opened. I asked Dan Smith how he knew what was in these particular drums. Smith said he did not know. I instructed Smith to have his personnel open all the unopened drums. Evans and I examined every drum in the trailer to determine whether the waste material was one of the five permitted waste streams. As noted in the 6/30/80 inspection, waste streams were categorized into materials easily identified and materials in larger volumes. After these waste streams were permitted and removed, it would be easier to determine what waste streams remain. After inventorying the drums on the trailer and monitoring drums as they were loaded onto the trailer, it was determined this load consisted of the following:

- 52 drums containing various amounts of sludge-estimated gallonage of 1,760 - transported under manifest #0315703 and supplemental permit #801767.
- 6 drums containing various amounts of oils and grease-estimated gallonage of 275 transported under manifest #0315705 and supplemental permit #801769.
- 3 drums containing various amounts of rubber-estimated gallonage of 130 transported under manifest #0315704 and supplemental permit #801770.
- 24 empty scrap drums. Five drums of waste materials must remain on site until supplemental permits are obtained for them. Three of these drums had to be taken off the partially loaded trailer. The inventory of these drums is as follows:
 - 2 drums, both full of a dark blue, slightly viscous opaque, liquid with slight organics odor.
 - 1 full drum of a very viscous gold opaque material.
 - 1 full drum of a very viscous, dark brown and gold material.
 - 1 drum approximately ½ full of small vials and bottles containing unknown wastes.

Fermitted drum wastes not loaded onto the semi trailer were inventoried:

- 17 drums containing sludge permit #801767.
- 4 drums containing rubber permit #801770.
- 498 drums containing various amounts of ditch slucge permit #801771
- 26 drums containing metal scrap.

The waste sludge in the silo was being pumped into a "not for road" tanker with a capacity of 2500 gallons. The waste was then pumped into a placarded liquid waste hauling vehicle. The estimated capacity of this tanker is also 2500 gallons. The transference of the waste from the first tanker to the second could not be completed this day. Dan Smith said the waste would be finished being pumped on Tuesday but it would not be removed from the site until Wednesday, November 5, 1980 when M.S.D. personnel are present. A condition of all of the supplemental permits issued for the clean up of this site is that Agency personnel be present during the removal of the wastes. In that all Northern Region Field personnel were required to attend a safety seminar in Springfield November 4 and 5, 1980, Anne Rapkin of the Attorney General's office arranged for M.S.D. personnel to be present in lieu of Agency personnel.

The waste that was removed from the site November 3, 1980 was limited to the semi trailer as inventoried in this memorandum. Confirmation of waste materials removed on November 5 and 6, 1980 is forthcoming from M.S.D.

The following samples were taken during the inspection. See sample sheets for details:

- CU 101 Liquid from the drainage way and lagoon system
- CU 102 Drum of viscous gold waste
- CU 103 Drummed sludge from drainage way
- CU 104 Drum of dark blue slightly viscous material
- CU 105 Waste being pumped from the silo.

cc: Northern Region

Bill Child

Anne Rapkin - Attorney General's Office



DATE:

November 10, 1980

TO:

livision File

FROM:

J. Evans

SUBJECT:

DOOK CO. 031600022 Chicago/U.S. Scrap

Site clean up is still continuing under the supervision of the IEPA. On 11/10/80, J. Evans was on site to manage on going clean up and the removal of hazardous waste from the site.

At this time two loads of waste were properly manifested to Paxton Landfill. The first load was 80 - 55 gallon drums of "waste sludge ditch" authorization #801771 and the second load was approximately 2500 gallons of "waste sludge sile" authorization #801768. According to Dan Smith, this was all the waste planned to leave the site today. It was also agreed upon by both Dan Smith and myself that no waste would leave the site on November 11th due to a holiday. However, plans were ok'd to have both the tanker and trailer loaded and properly manifest ready for disposal first thing Wednesday morning under IEPA Supervision.

cc: Bill Child
Ann Rapkin
Northern Region

ier

LPC 03160022 - CHICAGO/U.S. SCRAP

- r 12, 1980, I arrived on site to continue to monitor the removal o Paxton II landfill. Waste loads manifested and prepared for are as follows:
- 0 drums estimated to be approximately $\frac{1}{2}$ full were loaded into vo semi-trailers. (5,200 gallons semi solid sludge from the agoon and drainage way system)

one tanker containing approximately 2,500 gallons of waste from the silo

agreed that no additional waste would be removed until Agency personnel asent on November 13, 1980.

irthern Region ine Rapkin



DATE

November 13, 1980

TO:

Division File

FROM:

J. Evans

SUBJECT:

COOK CO. - 031600022 - CHICAGO/U.S. SCRAP

On November 13, 1980, Brad Benning and myself supervised the removal of two loads of hazardous waste from the site. The manifested waste streams were:

- 1) Approximately 1500 gallons of "waste sludge silo" and
- 2) Approximately 84 drums, 3612 gallons, of "waste sludge ditch".

Drums remaining on are: approximately 25 drums of "waste sludge ditch", 45 drums of "drum waste sludge" and 5 drums of waste which has not been issued a supplemental permit at this time.

Plans were made to remove the remaining drums, with the exception of the five early November 14.

cc: Bill Child
Ann Rapkin
Northern Region

, DATE:

November 14, 1980

TÒ:

Division File

FROM:

J. Evanssæ

SUBJECT:

200K CO. - 03160,0022 - CHICAGO/U.S. SCRAP

On November 14th, I returned to supervise the removal of the remaining frummed waste with the exception of the 5 drums. Approximately 42 drums, 1500 gallons of "drum waste sludge" and 23 drums, 800 gallons, of "waste sludge ditch" were manifested for Paxton.

Plans were also made for Monday to start pumping out the liquid in the ditch and to remove the sludge left in the silo. Work was planned to begin around 10:00~a.m.

cc: Bill Child
Ann Rapkin
Northern Region

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY	MEMORANDUM
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STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

MESSAGE REPLY

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Printed in U.S.A.

A GREEMENT

THE MICHIGAN CENTRAL RAILROAD COMPANY

· (berchafter called Graptor)

has agreed through

W. A. Stockhoff

Regional Manager - Real Estate,

The Penn Central Corporation,

subject to the approval of the Management and Board of Directors of The Penn Central Corporation and of Grantor to quitclaim and release to Avenue Bank & Trust Company of Oak Park Land Trust #2782

(bereinalter called Grantee)

all of Grantor's right, title and interest in and to

the land being situate in Chicago, Cook County, Illinois - Cottage Grove North of 130th Street

is to be paid in cash upon the delivery of a quitelaim deed quitelaiming Grantor's right, title and interest in and to the premises to said Grantee and said deed shall provide as follows:

"THIS INSTRUMENT is executed, delivered and accepted upon the understanding and agreement:

"that Grantor shall not be liable or obligated to construct or maintain any lence-between the land bereinbefore described and land of Grantor adjoining the same; or be liable or obligated to pay for any part of the cost or expense of constructing or maintaining such a fence or any part thereof; or be liable for any compensation for any damage that may result by reason of the nonexistence of such a fence;

"that Grantee shall not have or assert any claim or demand whatsoever for compensation for damages, whether sold damages be direct or consequential, to the land hereinhelore described or to any buildings or improvements now or hereafter erected thereon, or to the contents thereof, which may be caused by the operation, maintenance, repair or renewal of Grantee railroad or which may be caused by vibration resulting from the operation, maintenance, repair or renewal thereof; and Grantee bereby expressly releases Granter from liability for any such damages;

"that Grantee shall not at any time hereafter ask, demand, recover or receive any compensation whatever for any damage which may be caused by the sliding of any part of the adjoining railroad embankment of Grantor, or by the draining which may be a state of the state of the same beautiful placed thereon;

"that Grantor shall not be liable or oblighted to provide Interal support for the surface of the land bereinbefore described or any part thereof; and that the Granton shall not, at any time bereafter, sak, demand, recover or receive any compensation whatever for any damage that may be caused by the sliding of any part of the slope or embankment supporting the surface of the land hereinbefore described on the and shall use due diligence to prevent the disinste or support of water or the precipilitation of show or ice or anything whatever from the land hereinbefore described onto or age the remaining land of Grantor or onto or upon any part thereof;

in the event the tracks of the railroad of Grantor are elevated or depressed, on the grades of any streets, avenue, the first of the event of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the event any trade crowing is varied and the oil, or the first of the event of the first of the

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"that a right or means of ingress, egress or passegency to or from the land bereinbefore described is not bereby granted, specifically or by implication, and that Grantor shall not and will not be liable or obliged to obtain for Grantee such means of ingress, egress or passegency and also that Grantee will obtain a means of access to and from the said land at Grantee's own cost and expense."

IT IS FURTHER UNDERSTOOD AND AGREED BETWEEN THE PARTIES HERETO THAT:

- (1) Grantee shall pay for any abstract expense, title examination or title insurance of the property desired by Grantee or needed for the completion of the sale.
- and mortgage releases (2) Grantee will pay the recording costs of deed/and shall assume cost of any transfer stamps or taxes necessary to conclude the sale.
- (3) Anything contained herein to the contrary notwithstanding this agreement shall not be construed as an obligation of the Grantor or any of its affiliates to furnish sidetrack service to the premises to be sold hereunder.
- (4) The Grantee agrees that all real estate taxes, special assessments, water and sewer rents, and any other taxes and charges on the property being conveyed, shall be prorated as of the title closing date and that the Grantee shall pay to the Grantor at title closing all such taxes and charges due based on a 365-day period from the date of closing to the end of the applicable local or governmental fiscal tax year.
- (5) The deed will contain the following clause in regard to adverse claim: "This deed is made with the understanding that should a claim adverse to the title hereby quitclaimed be asserted and/or proved, no recourse shall be had against the Grantor herein, its successors or assigns".
- (6) This contract shall be subject to any easement, encumbrance, right or benefit that may have been created or recognized in or by that certain deed from the Grantor herein to Consolidated Rail Corporation designated as Document No.

 24586169 in the certification, as amended, of the United States Railway Association to the Special Court pursuant to Section 209(d) of the Regional Rail Reorganization Act of 1973, as amended.
- (7) "Excepting and Reserving, however, to Grantor all existing wire and pipe agreements, occupations and licenses, of record and not of record, between Grantor and other parties, if any, that cross or in any way encumber the premises together with the right to convert said agreements, occupations and licenses into premanent easements at any time, and convey such easements to the occupant without securing approval of the Grantee herein. Grantor specifically reserves and retains all rentals, fees and considerations resulting from such agreements, occupations, licenses, and easement conversions."
- (8) Grantee shall reimburse Grantor its cost for the surveys dated October 28, 1977 by Roland A. Fabian which were \$2,500.
 - (9) Subject to an aerial easement for the 130th Street Bridge.

- (10) Penn Central Corporation is a defendant in a lawsuit entitled People of the State of Illinois vs. Steve Martell, et al., Cause No. 80 CH 4422 now pending in the Circuit Court of Cook The said Complaint alleges the existence on the premises of certain environmental, subsoil, soil and below surface water table conditions and defects. A copy of the latest Complaint is attached hereto as Exhibit Z and is incorporated herein by refer-Penn Central Corporation agrees to pay any fine or damage award and to perform any act required of it by the Court or pursuant to any settlement reached by it in said Cause. <u>Penn Central Corporation further agrees that it is and shall remain responsible for</u> all defects in the soil uncovered by the soil testing on the premises commencing on June 22, 1981, and ending by June 30, 1981 ("State Soil Tests"). Grantee agrees to take the premises subject to all defects or conditions in the premises alleged in the Complaint and any other defects or conditions in the premises including but not limited to any environmental, subsoil, soil and below the surface water table defects or conditions not revealed by the State Soil Tests currently existing on the premises or any change in the condition of the premises which arises in the future or is caused by said defects or conditions. Grantee agrees that any such defects or conditions not revealed on the State Soil Tests are its responsibilities and further agrees to defend, indemnify and hold Penn Central Corporation or Grantor harmless for any action, suit or claim arising from or related to such defects or conditions not revealed by the State Soil Tests. This paragraph shall not merge with the deed and shall survive the closing.
- (11) Grantee understands that its cooperation will be required in order for Penn Central Corporation to effectively defend Cause No. 80 CH 4422. Grantee agrees to give Penn Central Corporation said cooperation and will allow Penn Central Corporation to take any act with respect to the premises which Penn Central Corporation deems necessary to defend Cause No. 80 CH 4422 including but not limited to giving access to the premises to the State of Illinois or any other party to said suit ("parties") and allow the State of Illinois or any party to do any soil, environmental, geological or topographical testing Penn Central Corporation deems necessary or appropriate in its sole discretion. This paragraph shall not merge with the deed and shall survive the closing.
- (12) Grantee will cooperate with Penn Central Corporation in enabling it to take any act with respect to the premises ordered by the Court in Cause No. 80 CH 4422 or agreed to by Penn Central Corporation in settlement of Cause No. 80 CH 4422. Penn Central Corporation shall be empowered to settle Cause No. 80 Ch 4422 on any terms it deems appropriate, in its sole discretion, provided the said settlement does not legally convey an interest in the property. In effecting a settlement or complying with a Court order in Cause No. 80 CH 4422, Penn Central Corporation and any of its agents or representatives shall have complete access to the premises at all hours of any day of the week to perform any act Penn Central Corporation deems necessary, in good faith, to effect said settlement or comply with said Court order. This paragraph
- (13) Grantee takes the premises subject to the easement granted to Stainless Steel Processing Company shown on Exhibit Y attached hereto.
- (14) Grantee acknowledges that it is aware that several hundred thousand gallons of liquid toxic chemical waste were pumped from the premises from June 1980 until November 1980. Penn Central Corporation makes no representations as to whether the location of this toxic waste on the premises caused any damange or harm to the premises. Grantee takes the premises subject to any such harm or damage. This paragraph shall not merge with the deed and shall survive the closing.

deed and shall survive the closing.

Grantee spaces that it will within five (6) days after receipt of copy of this agreement signed by Grantor either (8) order a servey of the premises by a licensed or registered curvey or and a preliminary title report or such other evidence of title as Grantee may desire, or (b) notify Grantor within said five (6) day period that Grantee does not wish to recure a survey and/or provide a preliminary title report or other evidence of title. In the event Grantee elects not to secure a survey, Grantee agrees that said deed will be accepted with such description of the premises as Grantor will provide; or if Grantee orders a rurvey, Grantee agrees to furnish a reproducible tracing of such plan of survey within thirty (30) days after ordering. In the event Grantee elects not to order a preliminary title report or other evidence of title, Grantee agrees to accept said deed and it thall be deemed that Grantee has waived any and all objections to title, or if Grantee orders a preliminary title report or other evidence of title, Grantee agrees to furnish a copy of such report to Grantor within thirty (30) days after ordering. Grantee further agrees to initiate within five (5) days after completion of survey a request for any sub-division approval required by law or ordinance or any zoning change required hereunder. Grantee shall assume the expense of furnishing and performing the foregoing with the understanding that if either Management or Board of Directors does not approve and authorize this transaction as aforesaid, Grantor shall reimburse Grantee for the net actual cost incurred by Grantee for survey and evidence of title upon receipt by Grantor of receipted bills therefor.

If this transaction includes buildings, structures or other improvements owned by Granter, Grantee agrees to take title to the same subject to any violations of law or ordinances whether or not such violations are officially recorded and in an "as is" condition on the title closing date.

· It is distinctly understood between the parties hereto that Il Grantee shall:

- (a) Isil or neglect to lumish the survey data and title report or notify Grantor of Grantee's election not to furnish same within the respective periods of time hereinabove specified, or
- (b) fail or neglect to approve a draft of said deed within fifteen (15) days after receipt thereof, or
- (c) fail or neglect to complete the transaction by paying the balance of the purchase price and accepting delivery of the title documents within a period of ten (10) days after Grantee has been advised in writing that such documents are ready for delivery, or
- (d) Inil or neglect to complete or perform any other duty or undertaking agreed to berein,

then, in any such event, Grantor, at its option, may declare this agreement terminated and void and Grantor shall be released from any obligation to convey the premises and shall retain the sum paid berewith as liquidated damages and not as a penalty.

The delivery of the title documents and payment therefor shall take place at a time and place to be mutually agreed upon,

and rentals, real estate taxes, special assessments, water and sower rents, and any other taxes and charges shall be apportioned between Grantor and Grantee as of the date of transfer of title.

Grantor shall not be liable for any real estate broker's commission, agent's commission, or finder's fee in connection with this sale and Grantee shall indemnify Grantor against any and all claims for such commission or fees.

It is understood between the parties hereto that Grantor has not, as of this date, received notice from any local or other public body or pursuant to the authority or direction of any public body, with respect to work proposed and allecting the premises, and having to do with the installation of curbing, sidewalk paving, cartway or street paving or other street improvements, or the installations of sewers, water or lighting facilities; and, therefore, in the event any such notice respecting the performance and the complotion of work required is bereafter received by Grantor or Grantee or notice of confirmed special water and the complete or Grantee in compliance with such notice or notices, and shall be responsible for compliance with such notice or notices, and shall pay for the work required or the amesqueent livined therefor.

It is understood between the parties hereto that the selling price is fixed without regard to aree and is not to be abated or changed should a survey prove an area different from the area above mentioned.

In the event either Management or Board of Directors fails to approve and authorize this transaction as alcressid, or in the event the conveyance on the terms herein provided would be contrary to any law, regulation or order of governmental authority, then the sum paid on account will be refunded without interest to Grantee who hereby agrees to accept same, where upon this writing shall be cancelled and annulled and heither party hereto shall have any claim whatever against the other by reason hereal.

It is understood and agreed that all understandings and agreements heretolore had between the parties hereto are merged in this agreement which alone fully and completely expresses their agreement and that the same is entered into after full investigation, neither party relying upon any statement or representation, not embodied in this agreement, made by the other. The Grantee has inspected the buildings and other improvements, if any, included in this transaction and is thoroughly acquainted with their condition.

This agreement may not be changed or terminated orally. The slipulations sloresaid are to apply to and bind the beirs, executors, administrators, successors, and assigns of the respective parties; provided, however, that no assignment hereof aball be made by Grantee without the prior written consent of Grantor.

In consideration of the payment by Grantor to Grantee of Ten Dollars (\$10.00) and for other valuable consideration, receipt of which is hereby acknowledged by Grantee, Grantee agrees that its execution of this Agreement and the delivery of same to Grantor constitutes a binding and irrevocable offer by Grantee to purchase the premises on the terms and conditions herein contained and that, except as otherwise expressly provided herein, such offer shall remain binding on Grantee and subject to acceptance by Grantor until Aus. 30, 96! or until Grantee notifies Grantor that such offer has been revoked, whichever occurs later. Grantee understands and agrees further that, notwithstanding any action or performance heretofore or hereafter taken or rendered by Grantor or any agent or employee of Grantor arising out of or in connection with this Agreement, Grantor shall not be deemed to have accepted such offer, nor shall Grantor have any liability whatsoever to Grantee with respect to the premises arising hereunder (except as provided above in reference to the cost of the title report, survey and the return of the down Grantee that this transaction has received necessary approval and authorization of Management and Board of Directors and Grantor accepts the offer of Grantee by signing in the place provided hereafter entitled ACCEPTANCE.

Dated the	lloth	day of	July	A.D.	19 81
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WITNESS	. 0	·			
George (Moo	ra_	Grantor: THE MI	CHIGAN CENTRA	L RAILROAD CO.
Barbara	1 Inentar		By: $\mathcal{U}.\mathcal{A}$.	Stocker.	J#3

ACCEPTANCE

Grantor hereby notifies Grantee that this transaction has received the necessary approval and authorization of Management and Board of Directors of The Penn Central Corporation and of Grantor (if other than The Penn Central Corporation), that Ximondowskixxhixquiddxxhouixkxixx Grantor hereby accepts Grantee's offer to purchase the property described in the foregoing Agreement.

PROPERTY SALES ADMINISTRATION

AUG 2 1 1981

INSPECTION REPORT FOR PENN CENTRAL CHICAGO, IL

ILD980606362

R05-8303-01B

JUNE 23, 1986



ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604; TEL. 312-663-9415 International Specialists in the Environment

MEMORANDUM

DATE:

June 24, 1986

T0:

File

FROM:

Thomas C. Gladan

SUBJECT:

Illinois/R05-8303-01B/IL0197

Chicago/Penn Central

ILD980606362

Penn Central is a 3 acre site located at 810 E. 12th Street/12400 S. Cottage Grove Avenue, Chicago, Illinois. This site was under a lease agreement from the Penn Central Railroad when all alleged dumping occurred. One of the dumping incidents involved filling the basement of an abandoned grain elevator with liquid wastes.

In 1980 (summer) the Illinois Attorney General ordered Penn Central to remove all liquid waste from the grain elevator. Total waste removed was 400,000 gallons and CD, CN, ZN, were found in samples of waste. The elevator was then demolished and the site filled in.

This site was identified by USEPA Erris Files. On June 9, 1986, the site was visited by Ecology and Environment/FIT. With the use of a property line map and surveying equipment, the exact location of the Penn Central grain elevator was determined. No samples were taken, waste type and characteristics are available from Preliminary Assessment file.

On June 11, 1986 FIT members interviewed site representatives to determine the present owner of the site and any pertinent information concerning present conditions.

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SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 1 - SITE LOCATION AND INSPECTION INFORMATION

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PART 1 - SITE LOCATION AND INSPECTION INFORMATION								
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CLIFF GOUL	₽	IlliNois	EP	A 0.6.	P. C.	1312) 345-4786		
04 PERSON RESPONSIBLE FOR	SITE INSPECTION FORM	05'AGENCY	DE ORG	BANIZATION	07 TELEPHONE NO.	06 DATE		
TNAME		USEPA	E	E (FIT)	(312) 663-9415	06,11,86		
THOMAS GLADA	· · · · · · · · · · · · · · · · · · ·			- 0, -		MONTH DAY YEAR		
EPA FORM 2070-13 (7-81)								



POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 2 · WASTE INFORMATION

I. IDENTIFICATION

UI STATE D7 SITE NUMBER

IL 0980606362

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SLU	SLUDGE							
OLW	OILY WASTE		Unknown		* sec	below		
SOL	SOLVENTS		DAKAOWA	. –		below		
PSD	PESTICIDES				1 ,			
OCC	OTHER ORGANIC CH	REMICALS		· · · · · · · · · · · · · · · · · · ·				
1OC	NORGANIC CHEMIC	ALS	UNKASUA		* Sec &	elow		
ACD	ACIDS			· · · · · · · · · · · · · · · · · · ·	1		· · · · · · · · · · · · · · · · · · ·	
BAS	BASES					· · · · · · · · · · · · · · · · · · ·	····	
MES	HEAVY METALS				1			
IV. HAZARD	OUS SUBSTANCES (544 A)	pendu formost frequent	y caed CAS Numbers;					
D1 CATEGORY	02 SUBSTANCE N		03 CAS NUMBER	04 STORAGE/E	DONTEM JAZOPSK	05 CONCENTRATION	DE ME ASURE OF	
ash	CVANIDE		7440-6	1_		1.0	PPM	
10 C	CADNIUM	- · · ·	7440-43-9	7		0.1	PPM	
006	CHOMIUM	` 	7440-47-3			0.5	PPM	
006	SULFIDE		Unknown	POORED INTE		77.5	PPM	
100	MERCURY		7439-97-6			6. /	PPM	
	LEAD	 	13 35-25-7	BASEMENT		0.1	YPM	
/0C	ZINC		7733-02-6		4 GBAIN	0.4	PPM	
160			7440-02-0	ELIVATOR		1.6	PPN	
100	NICKEL		. 77.0 020		AUA IDA	7.0	 	
							 	
	14.	+-+1 1.		43		4 4 4 5 6	·	
·	*				WASTE PE			
		SUMMER	OF 1980	WAS	400,000 64	110ND.	 	
			 				 	
·							 	
				l 	·			
V. FEEDSTO	OCKS 1500 Apports for CAS Name							
CATEGORY	On FEEDSTOO	X NAME	02 CAS NUMBER	CATEGORY	Of FEEDS10	OCK NAME	02 CAS NUMBER	
FDS	NA			FDS				
FDS	1			FDS	1			
FDS				FDS		-	·	
FDS		•		FDS	1			
VI. SOURCE	S OF INFORMATION (C++	specific references, e.g.	, State Des. sample analysis, i	aports)	-1	· · · · · · · · · · · · · · · · · · ·		
	SURVEY condu							
							•	
· SAMI	e pesous from	TEPA SU	mar 1980					
		•			•		,	

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POTENTIAL HAZARDOUS WASTE SITE SITE SITE INSPECTION REPORT

SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

L. EDENTIFICATION

OI STATE OF SHIE MANNER

IC D986666362

I. HAZARDOUS CONDITIONS AND INCIDENTS		-	
01 # A GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED	D2 LI OBSERVED (DATE	POTENTIAL	D ALLEGED
SHAllOW AQUIFER IS MADE UP OF LAI			
A 20-40 FOOT FHICK CLAY LAYER SE SHAHOW A COUPER	PERMES THE DEEPER OCCOMINE A	QOIFER FROM	A THE
01 B SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED	02 D OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	D POTENTIAL	D ALLEGED
- LAKE CHUMET 2, SOO PEET TO THE E.	457 RONOTT BOOS NOT GO TO LA	KE, CAKEUSE	15ZNOWOSKIAL
01 EJ C CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED	02 [] OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	D POTENTIAL	D ALLEGED
THE BE IS NO OBSELVED OF DOCUME	NEO THREAT OF AIR CONTAMIL	VATION .	
	<u> </u>		· .
01 D D FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED	02 DOBSERVED (DATE) 04 NARRATIVE DESCRIPTION	E POTENTIAL	C ALLEGED
THELE IS NO OBELLOOD OF DOCUMENTE	o thereat of pire/explisive co.	notions.	
O1 D E DIRECT CONTACT	02 L' OBSERVED (DATE)	POTENTIAL	C ALLEGED
03 POPULATION POTENTIALLY AFFECTED	04 NARRATIVE DESCRIPTION	it is armie	CALIP
THE SITE IS SECTURED FROM from a dirt Road. IEPA	HAPAIL SURFACE WASTE REM	cusa.	
- porter je so	***	-	
01 D F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED. AGREE!	02 ID OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	POTENTIAL	□ ALLEGED
RUNOST MAY CARRY CONTAN	INATES TO THE SOREBONDIN	APEA.	
	·		
DI DG DRINKING WATER CONTAMINATION 76.11	02 [] OBSERVED (DATE)	POTENTIAL	D ALLEGED
03 POPULATION POTENTIALLY AFFECTED	04 NARRATIVE DESCRIPTION		E ALLOES
POPULATION WITHIN A	THREE MILE KADIOS OF SIT	·E•	
All others are on lake a	ichgan water (city of chic	~90)	· ·
01 D H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED:	02 D OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	E) POTENTIAL	D ALLEGED
NO WORKER	ON SITE - NOT APPLICA	ANE.	
01 1. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 D OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	D POTENTIAL	C ALLEGED
CITE is Section			
3/15 . 5 50 676	, ded - only minor pot	ENTIAL	

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

L IDENTIFICATION
01 STATE 02 SITE NUMBER
1098066362

H. HAZARDOUS COMDITIONS AND INCIDENTS (Contract)			
01 B J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 D OBSERVED (DATE:)		□ ALLEGED
NO UEGITATION EXTETS	ON THE OLD BRAIN ELEVA	TOL FOUNDAT	1076
	• • •	,	
01 BYK, DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Inchide name(s) of species)	02 OBSERVED (DATE:)	B POTENTIAL	☐ ALLEGED
POTENTIAL FOR FAUNA	EXISTS, NO EUIDENCE WAS	SEEN.	
01 & L. CONTANINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 🗆 OBSERVED (DATE:)		☐ ALLEGED
i e e e e e e e e e e e e e e e e e e e	FLORA / FAUNA CONTAMINA		
possibility of conta	MINAYION OF FOOD CHAIN EX	i 575.	
01 M. UNSTABLE CONTAINMENT OF WASTES (Spils Burion: Standing Iquids, Leaking drums)	02 DOBSERVED (DATE:)	■ POTENTIAL	□ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
INTEGRITY OF ELEUMOR &	345EMENT 15 NOT TELL		
01 D N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 D OBSERVED (DATE:)	POTENTIAL	D ALLEGED
MSO STARES A COMMON	BOLDER AND DRAINAGE DIT	ch .	
which may carch some A	low off.		
01 @ O. CONTAMINATION OF SEWERS, STORM DRAINS, WA	VTPs 02 D OBSERVED (DATE:)	D POTENTIAL	□ ALLEGED
NO STORM S	EWERS OF DRAINS NEAR	PIOPERTY.	·
			·
01 P. BLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	☐ POTENTIAL	■ ALLEGED
All WASTES ARE Alle	bed to HAUB COME FROM ITLE	GAL DOMPIN	·
NO FENCE ALOUND S.	ite.	•	j
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR A			
BENZENE AND T	POUENE MAY BE ON SITE.	•	
		- 	
	30.4		
IV. COMMENTS			
· ·			
NONE			
V. SOURCES OF INFORMATION (Cité apocific references, é. g., state	s lites, semple analysis, reports;		
· SAMPLE RESOLTS FROM I			
· Site inspection 6/11/81 [By Fit-		

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	- I

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION

	TEICATION
DI STATE	02 SITE NUMBER 09 8 0606362

WEFA		AND DESC	CRIPTIVE INFORMAT	TION	IL 1098 0606362
II. PERMIT INFORMATION					
O1 TYPE OF PERMIT ISSUED	02 PERMIT NUMBER	03 DATE ISS	JED 04 EXPIRATION DATE	05 COMMENTS	
TA NPDES				ł	
DB. UIC		1		Ţ -	
DC. AM					
D. RCRA					
DE. RCRA INTERIM STATUS	1				
DF. SPCC PLAN					
□ G. STATE Specify)				1	
□ H. LOCAL (Specify)					
DI. OTHER (Specify)		1		1	
B.J. NONE		1		1	
III. SITE DESCRIPTION			. 		
	AMOUNT 03 UNIT OF	MEASURE	04 TREATMENT (Check at that	apply)	05 OTHER
☐ A. SURFACE IMPOUNDMENT		٠],	A. INCENERATION		
D B. PRLES			3 B. UNDERGROUND INJ	ECTION	A. BUILDINGS ON SITE
C. DRUMS, ABOVE GROUND			C. CHEMICAL/PHYSIC		
D. TANK, ABOVE GROUND		1	D. BIOLOGICAL		None
DE. TANK, BELOW GROUND		1	☐ E. WASTE OIL PROCES		06 AREA OF SITE
D F. LANDFILL			F. SOLVENT RECOVER		7.0
G. LANDFARM	109000 20		G. OTHER RECYCLING H. OTHER		(Acros)
D I. OTHER				ecry)	
(Specify) 07 COMMENTS					<u> </u>
INTO BASE. EVELATOR IV. CONTAINMENT	MENT. DIMENS	م کلممر	-150'X~10	o' .	WASTE PUMPED
01 CONTARMENT OF WASTES (Check one) [] A. ADEQUATE, SECURE	☐ B. MODERATE	C. INA	DEQUATE, POOR	D. INSECUR	RE, UNSOUND, DANGEROUS
02 DESCRIPTION OF DRUMS, DIKING, LINERS, BAI	ARIERS, ETC.				
INT	ELETY OF BASEI	MENT N	NOT KNOWN.		
V. ACCESSIBILITY			2"		
01 WASTE EASILY ACCESSIBLE: YES 02 COMMENTS	ONO STEIS IN Soid	, a.a. :			
_			-		
	NOT FENCED			ible_	
VI. SOURCES OF INFORMATION (Cito apac				- GYA	
· SAMPLE ANAI			· 1480 - Z	-614	·
	V (- 7 4 /	V = -		•	

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION

OLISTATE O2 SITE NUMBER

LC D 9 8 06 0 6 3 6 2

ZAPI V	PART 5 - WATER	, DEMOGRAPHI	C, AND ENVIRO	NME	ENTAL DATA		2 10 10000036
II. DRINKING WATER SUPPLY							
O1 TYPE OF DRINKING SUPPLY (Check as applicable)		02 STATUS				03	DISTANCE TO SITE
SURFACE	WELL	ENDANGERE	D AFFECTED		MONITORED		
COMMUNITY A. 3	8. □	A. D	B. 🖸 ·		C . 🗅	Α.	
NON-COMMUNITY C. [D. 🖿	D. 🗎	€. 🗅		F. 🗅	В	(ml)
III. GROUNDWATER	· · · · · · · · · · · · · · · · · · ·						
D1 GROUNDWATER USE IN VICINITY (Check	one)						
DI A. ONLY SOURCE FOR DRINKING	B. DRINKING (Other sources available COMMERCIAL, IN (No other water source	DUSTRIAL, IRRIGATIO	(Limited of		INDUSTRIAL, IRRIGAT rea evoluble)	10N `	D D. NOT USED, UNUSEABLE
02 POPULATION SERVED BY GROUND WAT	TER 30.4		03 DISTANCE TO N	EARES	ST DRINKING WATER V	VELL	1.4 (mi)
04 DEPTH TO GROUNDWATER	05 DIRECTION OF GRO	OUNDWATER FLOW	06 DEPTH TO AQUI	FER	07 POTENTIAL YEL	D	08 SOLE SOURCE AQUIFER
10 111	E.		0F CONCERN 45-80		OF ADUSTER Un Known		□ YES D NO
				_(ft)	CHAN	_(gpd)	l
OB DESCRIPTION OF WELLS (including usage			Canal and		Mathematica	-11	
Eight homes THEE BRAW COM	the shallow	SAND AN	o Sucuria	ive In	de pareite	~Q v	ifer.
10 RECHARGE AREA	ow Acivifes		11 DISCHARGE ARE	A			
	905 1210M SE	00646	FYES COM	MENT	S Alon disti	due	1040
□ NO LECKAR	CIPHATION	.,.,.	a NO		LAKE M.	chia	4
IV. SURFACE WATER		· · · · · · · · · · · · · · · · · · ·					
01 SURFACE WATER USE (Check one)							
						_	
A. RESERVOIR, RECREATION DRINKING WATER SOURCE		N, ECONOMICALLY IT RESOURCES	U C. COMM	ERCIA	LL, INDUSTRIAL	י ע	D. NOT CURRENTLY USED
02 AFFECTED/POTENTIALLY AFFECTED B	ODIES OF WATER						
NAME:	•	•			AFFECTED	•	DISTANCE TO SITE
					•		^ 6
LAKE CALUME Little CALUM	et RIVER					-	(mi)
Little CALUM	er River				B	-	Vivi)
							(mi)
V. DEMOGRAPHIC AND PROPERT	Y INFORMATION	·			··		
01 TOTAL POPULATION WITHIN				02	DISTANÇE TO NEARE	ST POP	JLATION
ONE (1) MILE OF SITE TV	NO (2) MILES OF SITE	THREE (3) MILES OF SITE	ł			
A_ 150_	B. 7, 100		21,201 IO DE PERSONS	1		<u>· 7</u>	(mi)
				_ـــــــــــــــــــــــــــــــــــــ			
03 NUMBER OF BUILDINGS WITHIN TWO (2			04 DISTANCE TO N	EARES	T OFF-SITE BUILDING		
_1/8:	8	•			0.1	(mi)
05 POPULATION WITHIN VICINITY OF SITE	(Provide nerrative description of	neture of population within	vicinity of site, e.g., rural,	village, d	lensely populated arban are	10)	
			_			•	d
S,76 13	industial	IZED RES	sidutial A	/#a.	s Ale Sou	rth o	t 5)te.
							•

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

	IFICATION	
OI STATE	02 SITE NUMBER D9806063	62

7/ == / -		5 - WATER, DEMOGRAPH	IIC, AND	ENVIRONMENTAL DA	CIA CELETA
VI. ENVIRONMENTAL INFORMA					
O1 PERMEABLITY OF UNSATURATED ZO					· ·
□ A 10-6 - 10-	B cm/sec	□ B. 10 ⁻⁴ = 10 ⁻⁶ cm/sec □	C. 10-4	- 10 ⁻³ cm/sec	EATER THAN 10-3 cm/sec
02 PERMEABILITY OF BEDROCK (Check to	ne)				
A. IMPERN (Less then 1	REABLE 10 ⁻⁶ cm sect	B RELATIVELY IMPERMEAB	LE DC.	RELATIVELY PERMEABLE	© D. VERY PERMEABLE (Greater than 10 ⁻² cm sec)
03 DEPTH TO BEDFOCK	04 DEPTH C	F CONTAMINATED SOIL ZONE		05 SOIL pH	
(n)	·	Unknown (n)		6:1707.3	
06 NET PRECIPITATION	O7 ONE YEA	R 24 HOUR RAINFALL	08 SLOPE		PTE SI ODE - TERRANI AVERAGE OF ODE
3.75 (in)	-	2.43 (in)		SLOPE DIRECTION OF	STE SLOPE TERRAIN AVERAGE SLOPE
09 FLOOD POTENTIAL		10		, •	
SITE IS IN UNKAM YEAR FLO	ODPLAIN	VA □ SITE IS ON BARR	IER ISLANI	D, COASTAL HIGH HAZARD	AREA, RIVERINE FLOODWAY
11 DISTANCE TO WETLANDS 15 acre minim	ini;		12 DISTA	NCE TO CRITICAL HABITAT (of a	•
ESTUARINE		OTHER			<u>>3 (mi)</u>
A>3(mi)	т В. "	(mi)	E	NDANGERED SPECIES:	VA
13 LAND USE IN VICINITY		,			
DISTANCE TO	•	+			
COMMERCIAL/INDUSTR	IIAL	RESIDENTIAL AREAS NATIO			AGRICULTURAL LANDS AGLAND AGLAND
		_			_
A (mi)		В	Z (mi)	c > :	3.0 (mi) D. 23.0 (mi)
14 DESCRIPTION OF SITE IN RELATION	TO SURROUN	DING TOPOGRAPHY			
27 VANNON NASISSAM OSS	E CONTROL OF THE PARTY OF THE P	27	NN C	ENTRAL	
VII. SOURCES OF INFORMATIO	N carace	Conferences, B.C., about first, assembly anotherin	. mearle		
· SITE INSPECTION PETFOR	mil by F	IT MEMBERS ON 6/11/8		د د ب	WE IN EN (well I and)
· 7.5 minote topographic /	ar of L Dept of	AKECACUMET, IL. IN IA		1973 E 9 E F	ILE IN FO (WELL LOJS)
· CLIMATIC ATLAS OF US					
· Sic Solver dome	Comity	U.S DETI OF AT NOUL +0	re 1979	?.	

EPA	1 PA	SITE INSPECTION REPORT ART 6 - SAMPLE AND FIELD INFORMATION	IC 0980606362
M. BAMPLES TAKEN			
SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE PESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR		ASONE	
RUNOFF			
8PILL			
SOIL			
VEGETATION		1	
OTHER			
NI. FIELD MEASUREMEN	TS TAKEN		
NONE	02 COMMENTS		
	·		
IV. PHOTOGRAPHS AND	MAPS		
01 TYPE # GROUND D		02 IN CUSTODY OF BLOG & ENVIEW ME	US INC (Fit)
03 MAPS 04 LO	CATION OF MAPS GCology 9	ENVIRON MENT ZIT FILES	
V. OTHER FIELD DATA C	OLLECTED (Provide nerrative de	scription)	
TEPA Si	angle data f	-som interior of Sile-grain elevated	Sommer 1880.
	-		
l ·			
1			
VI. SOURCES OF INFOR	MATION (Can apacific references.	e.g., stare Mas. aemple analysis, reports)	
		DY RIY MEMBERS ON C/11/1986	
			· · · · · ·

EPA FORM 2070-13 (7-81)

POTENTIAL HAZARDOUS WASTE SITE

L IDENTIFICATION

\$EPA		SITE INSPE	ARDOUS WASTE SITE ECTION REPORT NER INFORMATION	OLSTATE OF	2 SITE NUMBER 0 98 060 (362
II. CURRENT OWNER(S)			PARENT COMPANY (II applicable)		
O1 NAME EDWARD HEIL O3 STREET ADDRESS P O BOL AFD 0, oic)		02 D+B NUMBER	OB NAME NONE		09 D+B NUMBER
03 STREET ADDRESS IP O BOX. AFD O. OIC.) 26 W S80 Schick	Ro	04 SIC CODE	10 STREET ADDRESS (P O Boz RFD #, etc.)		11 SIC CODE
26 W 580 Schick OSCHY Bloomindale	JL ZL	60/08	12 CITY	13 STATE	14 ZIP CODE
O1 NAME		02 D+B NUMBER	OB NAME		09 D+B NUMBER
03 STREET ADDRESS.(P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box. RFD #. etc.)		11 SIC CODE
05 CITY	06 STATE	E 07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
O1 NAME	<u> </u>	02 D+B NUMBER	OB NAME		09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box. RFD #, etc.)		11 SIC CODE
OS CITY	06 STATE	E 07 ZIP CODE	12 CITY	, 13 STATE	14 ZIP CODE
O1 NAME	<u> </u>	02 D+B NUMBER	OB NAME		09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADORESS (P.O. Bos. RFD #, etc.)		11 SIC CODE
05 CTY	06 STATE	E 07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
III. PREVIOUS OWNER(S) (List most recent first)		1	IV. REALTY OWNER(S) (F applicable, les re	rest recent first)	L
O1 NAME PENN CENTRAC 03 STREET ADDRESS (P.O. BOX, RFD 0, etc.)		02 D+B NUMBER	OI NAME NONE		02 D+B NUMBER
		04 SIC CODE	03 STREET ADDRESS (P.O. Box. RFD #, etc.)	,	04.SIC CODE
1700 MARKET ST.	PA	19/03	05 СІТУ	06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box. RFD #, etc.)		D4 SIC CODE
05 CITY	06 STATE	E 07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
O1 NAME		02 D+B NUMBER	O1 NAME	:	02 D+B NUMBER
03 STREET ADDRESS(IP.O. Box, RFD P, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD P, etc.)	······································	04 SIC CODE
05CITY	06STATE	E 07 ZIP CODE	05 CITY	06 STATE	07 ZIP COOE
V. SOURCES OF INFORMATION (CRe apoc	cific references	i, e.g., state fles, sample analys	is, reports)		L
Site Sulue) con Duc	TEO	By Fit	MEMBERS ON 06/11/	186	

EPA FORM 2070-13 (7-81)

SEPA	SITE IN	IAZARDOUS WASTE SITE SPECTION REPORT PERATOR INFORMATION	I. IDENTIFICATION O1 SLATE 02 SITE NUMBER JC 09806063			
H. CURRENT OPERATOR (Prover)	Allerant from burner"	OPERATOR'S PARENT COMP	OPERATOR'S PARENT COMPANY (7 applicable)			
NAME	02 D+ B NUMBER	10 NAME V/A	11 D+B NUMBER			
DIS STREET ADDRESS (P O Box, RFD #, etc.)	D4 SIC CODE	12 STREET ADDRESS (P.O. Box. RFD #, e	HE) 13 SIC CODE			
DS CITY	06 STATE 07 ZIP CODE	14 CITY	15 STATE 16 ZIP CODE			
DE YEARS OF OPERATION DI NAME OF	OWNER					
MI. PREVIOUS OPERATOR(S) (Lain	ost recent first, provide only if different from over	PREVIOUS OPERATORS' PAR	RENT COMPANIES (#applicable)			
ON KNO	O2 D+B NUMBE	R TO NAME VA	11 D+B NUMBER			
03 STREET ADDRESS (P.O. Box, RFD P. Mc.)	04 SIC CODE	12 STREET ADDRESS (P.O Box, AFD P.	etc.) 13 SIC CODE			
05 CITY	DE STATE 07 ZIP CODE	14 CITY	16 STATE 16 ZIP CODE			
08 YEARS OF OPERATION 08 NAME OF	OWNER DURING THIS PERIOD					
O1 NAME	02 D+8 NUMBER	R 10 NAME	11 D+B NUMBER			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Bos. RFD P. •	ote / 13 SIC CODE			
05 CITY	06 STATE 07 ZIP CODE	14 CITY	15 STATE 16 ZIP CODE			
08 YEARS OF OPERATION 09 NAME O	FOWNER DURING THIS PERIOD					
01 NAME	02 D+8 NUMBE	R 10 NAME	11 D+B NUMBER			
D3 STREET ADDRESS (P.O. Box, RFD P, etc.)	04 SIC COD	E 12 STREET ADDRESS (P.O. Box. RFD #, a	MC) 13 SIC CODE			
05 C/TY	06 STATE 07 ZIP CODE	14 CITY	15 STATE 16 ZIP CODE			
08 YEARS OF OPERATION 09 NAME O	F OWNER DURING THIS PERIOD					
IV. SOURCES OF INFORMATION	(Cite apposition references, e.g., state Max. serro	to prodysta, reporta)				
	N INTERVIEW ON					

SEPA		SITE INSPE	ARDOUS WASTE SITE ECTION REPORT INFORMATION	1. IDENTIFI 01 STATE 02	ICATION SITE NUMBER 1998 OGOG 362
II. ÒN-SITE GENERATOR		[00 D . D	;		
OI NAME N/A		02 D+ B NUMBER	•		
03 STREET ADDRESS IF 6 Box AFD # alc)		04 SIC CODE			
05 CITY	06 STATE	07 ZIP CODE	1		
NI. OFF-SITE GEMERATOR(S)				•	
Un Known		02 D+B NUMBER	O1 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, AFD #, etc.)		04 SIC CODE
оѕ слу	06 STATE	07 ZIP CODE	OS CITY	O6 STATE	D7 ZIP CODE
O1 NAME		02 D+B NUMBER	O1 NAME	,	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	<u> </u>	04 SIC CODE	D3 STREET ADDRESS (P C Bos, RFD 0, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
IV. TRANSPORTER(S) UN KNOW	<u> </u>	<u> </u>			L
OI NAME Un Known	,·	02 D+ B NUMBER	O1 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.D Box, RFD #, etc.)		D4 SIC CODE	03 STREET ADDRESS (P.O Box, RFD +, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
O1 NAME		02 D+B NUMBER	O1 NAME		02 D+8 NUMBER
03 STREET ADDRESS (P.O. Box, RFD 8, etc.)		D4 SIC CODE	03 STREET ADORESS (P O Box RFD #, etc.)	,	04 SIC CODE
05 CITY	06 STATE	E 07 ZIP CODE	05 CITY	06 STATE	07 ZIP COD€
V. SOURCES OF INFORMATION (Can also	cific references	e g . state files sansole analys	us, reports1		
SITE INSPECTION IN	TELVIC	· U ON 061	11/86		
				•	
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·					-
					·
			·		
EPA FORM 2070-13 (7-81)	 				

•	POTENTIAL HAZARDOUS WAS	TE SITE LI	DENTIFICATION
EPA	SITE INSPECTION REPORT		TATE 02 SITE NUMBER
	PART 10 - PAST RESPONSE ACT		
ST RESPONSE ACTIVITIES			· · · · · · · · · · · · · · · · · · ·
01 D.A. WATER SUPPLY CLOSED 04 DESCRIPTION	92 DATE	03 AGENCY	
14 DESCRIPTION)A		
01 B. TEMPORARY WATER SUPPLY	PROVIDED 02 DATE	03 AGENCY	
04 DESCRIPTION	VA		
01 D. C. PERMANENT WATER SUPPLY	PROVIDED 02 DATE	03 AGENCY	
04 DESCRIPTION	IA		
01 D D. SPILLED MATERIAL REMOVED	02 DATE	03 AGENCY	·
04 DESCRIPTION	VA		
01 D E CONTAMINATED SOIL REMOVE		03 #GENCY	
04 DESCRIPTION	NA		
01 ☐ F. WASTE REPACKAGED	. O2 DATE	03 AGENCY	
04 DESCRIPTION	NA		
01 G. WASTE DISPOSED ELSEWHER	e ollows of ciovid was	R 1980 O3 AGENCY	CEPA 60 FROM
04 DESCRIPTION 460,000	gollons of ciquid was a grain Elevator and Wepo	R 1980 OS AGENCY	CEPA 60 FROM removagem
01 E G. WASTE DISPOSED ELSEWHER 04 DESCRIPTION 460,000 01 D H. ON SITE BURIAL 04 DESCRIPTION	or Date Somme gollows of ciquid was: grain ELEVATAR AND DISPO OR DATE NA	R 1980 03 AGENCY	CEPA 60 FAROM remanagemi
04 DESCRIPTION 460,000 01 II H. ON SITE BURIAL 04 DESCRIPTION	gollons of ciquid WAS: grain ELEVATAL AND WERD 02 DATE NA	OS AGENCY	ED FROM
04 DESCRIPTION 460,000	gollons of ciquid WAS: grain ELEVATAR AND WERD 02 DATE 02 DATE NA 02 DATE	OS AGENCY	ED FROM
04 DESCRIPTION 460,000 01 D H. ON SITE BURIAL 04 DESCRIPTION 01 D I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	gollons of ciquid WAS: grain ELEVATAR AND WERD 02 DATE 02 DATE NA 02 DATE	OS AGENCY	60 FROM remanagement
04 DESCRIPTION 01 D H. ON SITE BURIAL 04 DESCRIPTION 01 D I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION 01 D J. IN SITU BIOLOGICAL TREATME	gollons of ciquid WAS: grain ELEVATOR AND DISPO 02 DATE 02 DATE 02 DATE NA	OS AGENCY	60 FROM remanagement
04 DESCRIPTION 460,000 01 H. ON SITE BURIAL 04 DESCRIPTION 01 D. IN SITU CHEMICAL TREATMENT	gollons of ciquid WAS: grain ELEVATOR AND DISPO 02 DATE 02 DATE NT 02 DATE NT 02 DATE	OS AGENCY	BO FROM
04 DESCRIPTION 01 D H. ON SITE BURIAL 04 DESCRIPTION 01 D I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION 01 D J. IN SITU BIOLOGICAL TREATME 04 DESCRIPTION	gollons of ciquid was: grain ELEVATOR AND DISPO 02 DATE 02 DATE NT 02 DATE 02 DATE 02 DATE	OS AGENCY	EO FROM
04 DESCRIPTION UGO,000 01 D H. ON SITE BURIAL 04 DESCRIPTION 01 D J. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION 01 D J. IN SITU BIOLOGICAL TREATME 04 DESCRIPTION 01 D K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	gollons of ciquid was: grain ELEVATOR AND DISPO 02 DATE 02 DATE NA 02 DATE NT 02 DATE NT 02 DATE	O3 AGENCY	EO FROM
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02 DATE

02 DATE_

03 AGENCY

03 AGENCY

01 ☐ P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION

01 D Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION

.	

POTENTIAL HAZARDOUS WASTE SITE

	TIFICATION
OI STATE	02 SITE NUMBER D 98 06063 62
	0 10 0600362

VEPA	PART 10 - PAST RESPONSE ACTIVITIES	IL D98 0606362
II PAST RESPONSE ACTIVITIES (Continued		
01 DR BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	O2 DATE	03 AGENCY
NA		<u> </u>
01 D.S. CAPPING/COVERING 04 DESCRIPTION	O2 DATE	D3 AGENCY
VA		
01 E.T. BULK TANKAGE REPAIRED 04 DESCRIPTION	O2 DATE	03 AGENCY
NA		
01 D U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY
NA		
01. D. V. BOTTOM SEALED 04 DESCRIPTION	O2 DATE	03 AGENCY
NA		
DI DW GAS CONTROL	02 DATE	03 AGENCY
04 DESCRIPTION		•
01 2 X FIRE CONTROL	O2 DATE	03 AGENCY
04 DESCRIPTION N/A	•	
01 G Y LEACHATE TREATMENT 04 DESCRIPTION	O2 DATE	03 AGENCY
N /A	<u>.</u>	
01 D Z. AREA EVACUATED 04 DESCRIPTION	O2 DATE	03 AGENCY
NA		
01 D 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	02 DATE	03 AGENCY
01 El 2. POPULATION RELOCATED 04 DESCRIPTION	O2 DATE	03 AGENCY
NA		
01 D 3. OTHER REMEDIAL ACTIVITIES	O2 DATE	03 AGENCY
A 1 A		
10/14		
III. SOURCES OF INFORMATION (Cho specific refer	rences. e.g., state files, sample analysis, reports)	
SITE INSPECTION BY EIT	PERSONEL 6/1/86	
,	6	
	~	i



POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

	IFICATION	
OI STATE	02 SITE NUMBER D 9 9 0 60	6362

II. ENFORCEMENT INFORMATION

DI PAST REGULATORY/ENFORCEMENT ACTION 45 YES | [] NO

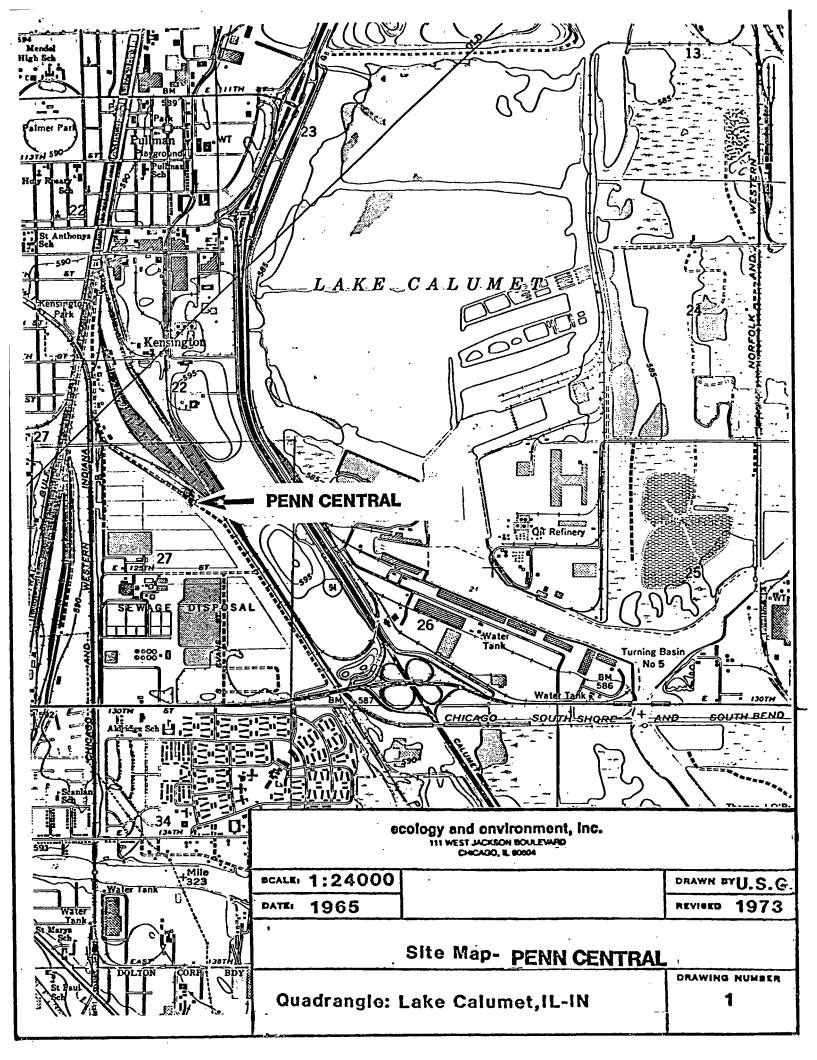
D2 DESCRIPTION OF FEDERAL STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

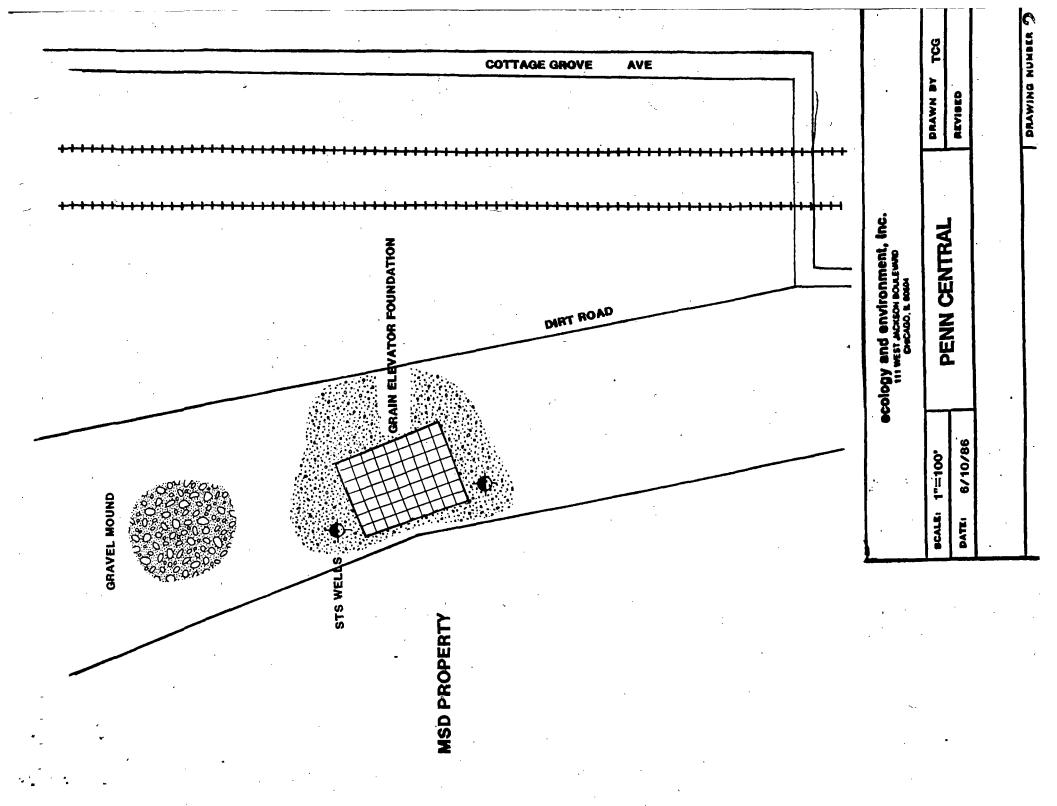
IN 1980 STATE ATTOFNET GENERALS OFFICE OFFICE PENN CENTRAL TO PEMOVE CIQUID WASTE FROM BASEMENT OF GIAIN ELEVATER.

THIS WAS done in the summer of 1980 By chemical Waste MANAGENERT, GOOD gallons of WASTE WAS REMOVED.

BL SOURCES OF INFORMATION (Cre specific references, e.g., state lies, sample analysis, reports)

SITEINSPECTIN CONDUCTED BY FIT 6/1/1984





Immediate Removal Action Check Sheet

Fire and Explosion Hazard	High	Moderate	Low
Flammable Materials <u>Scebelov</u>		\ \	
Explosives Un Known			
Incompatable Chemicals Unknown			
Direct Contact with Acutely Toxic Chemicals			
Site Security No FENCE]		
Leaking Drums or Tanks NONE			
Open Lagoons or pits			
Materials on Surface		X	·
Proximity of Population Msg workers		X	ľ
Evidence of Casual Site Use NoNE			
Contaminated Water Supply	; 	·	
Exceeds 10 Day Snarl			-
Gross Taste or Odors/A			
Alternate Water Available . YES			
Potential Contamination YES		·	
Is the site abandoned or active? Abandoned			

Comments - LAB ANAYSIS Shows METALS ZN, CN, CR.
AND FROM BRAIN ELEVATOR BASEMENT.

· 2 MONITORING WELLS EXIST - THESE STION
BENZENE, TOWERE, PYLENE, NAPHALENE AND PCBS

PERMIT ISSUED

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LANG/NOISE POLLUTION CONTROL SPECIAL WASTE DISPOSAL APPLICATION

HAZARDOUS

CARD TYPE	DATE 7-17-80 LPSNC AUTHORIZATION NUMBER 50/1267 CODE A (Agency Use) 17/17	1.1 80
	WASTE HAULER	8 19 20
1 6 7	HAULER REGISTRATION NUMBER 0046 NAME U.S. Drum Corp.	1.
6 7	ADDRESS 391 E. Kensington COMMUNITY Chicago	!
	ADDRESS 391 E. Kensington COMMUNITY Chicago COUNTY COOK STATE III. ZIP 60625 AREA CODE 312 TELEPHONE 755-0442 WASTE GENERATOR	3
	WASTE GENERATOR	
	CODE 13/400540 G NAME U.S. Scrip - Size cleaning	
	ADDRESS 123RD & COTTAGE GROVE COMMUNITY Chieves COUNTY COOK STATE III. ZIP 60628 AREA CODE TELEPHONE	·
	COUNTY COOK STATE III. ZIP 606.25 AREA CODE TELEPHONE	
	GENERATOR CONTACT NAME	
	DUNS NUMBER SIC CODE	65
$\frac{2}{6} \frac{0}{7}$	DUNS NUMBER SIC CODE PROCESS NAME $\frac{1}{21}$ $\frac{1}{2$	
•	WASTE CHARACTERISTICS	•
	GENERIC WASTE NAME SLUDGE	80
40	TUPAC WASTE NAME	<u>60</u>
	TOTAL ANNUAL WASTE VOLUME TRANSPORT FREQUENCY $\frac{2}{63}$ WASTE CLASS $\frac{1}{64}$ WASTE CLASS $\frac{1}{65}$ WASTE CLASS $\frac{1}{65}$ Under units $\frac{2}{61}$ Waste PHASE TRANSPORT FREQUENCY $\frac{2}{63}$ Waste CLASS $\frac{1}{64}$ Under units $\frac{2}{61}$ Waste PHASE The control of the control of	<u>2</u>
	TRANSPORT FREQUENCY $\frac{2}{63}$ WASTE CLASS $\frac{1}{64}$ 1 = CUBIC YARDS 1 = SOLID (Agency Use) $\frac{2}{64}$ 65 2 = GALLONS 2 = SEMI-SOLID	
	2 = DAILY $6 = BI-MONTHLY$ $4 = GAS$	•
	3 = WEEKLY 7 = QUARTERLY 4 = BI-WEEKLY 8 = SEMI-ANNUALLY	
	(Code either "1" for Low, "2" for Medium, or "3" for High as appropriate for columns 21 through 26):	
$\frac{5}{6} \frac{0}{7}$	INHALATION DERMAL INGESTIVE TOXICITY TOXICITY TOXICITY INFECTIOUS REACTIVITY EXPLOSIVE	
	INHALATION DERMAL INGESTIVE TOXICITY TO	
•	37 36 37 37 36 1 = ORGANIC	
	2 = INORGANIC	
	PERCENT PERCENT TOTAL COMPARED TO TOTAL COMPARED	-
	PERCENT ACIDITY $\frac{1}{36}$ - $\frac{1}{40}$ PERCENT ALKALINITY $\frac{1}{41}$ - $\frac{1}{43}$ PH $\frac{5}{44}$ $\frac{8}{46}$ SOLIDS $\frac{9}{47}$ $\frac{7}{4}$. $\frac{5}{51}$ ASH CONTENT $\frac{5}{52}$	· \(\frac{1}{55}\)
$\frac{6}{6}\frac{\dot{0}}{7}$	KEY COMPONENT NAME PERCENT KEY COMPONENT NAME	PERCENT
	1 5/vase 1/aste 1/aste 160.0 2 48 49	77 · 74
	3 21 22	77 77
	5 22 22 22 23 24 47 48 49	71 17
•	Conditioned Approval: RECEIVED RECEIVED	
	Material must not be app. 1000 JUL 21 1980	
	J 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•
	moved unless IEPA inspector is present. ILL. E.P.A D.L.P.C. E.P.A D.L.P.C. STATE OF ILLINOIS Require 24 hr. advance	•
	Require 24 hr. advance	
	notice	

CARD TYPE	DATE	7-17	1-80 L	PSWC	AUTHORIZ	ATION NUME	BER			RANS CODE	/ A	E LATERED	/_	_/
•			ī	5			_	RACTER1	STICS	3	14 (19)	18	10 17	18 19 70
7 0 6 7	METAL	. KEY	TOTAL	(PPM)	LEACH		METAL			. (PPH) LEMEN	(<u>M</u> 99)		
6 7	CN	0 1		L.7	; ;		Cu	0 2	<u>.</u> :	260		1_5		
	Ag	0 3		3.3			Нg	0 4		1.	L			
	As	0 5		_25.9	L		Ni	0 6		13.	<u> </u>			
	Ba	<u>0</u> 7_		6.0	1	•_	РЬ	08.		_928		<i>1</i> :E		•
	Cq .	0 9	-;	3.(<u></u>		Se	1 0		3	7	'-		
	Cr	11		176			Zn	12		_434		42.8		
											·	<u>-</u> -		
$\frac{8}{6} \frac{0}{7}$	LABO	RATORY 1	NAME				. — —	— <u>1</u> 86	2.5	- 	<u> </u>		· 10.	Contract of the Contract of th
•	CERT		DN NUMBE	R			··,		EWLD BY		$\leq \frac{1}{53}$	- 56	الواله تيسب	rado Estado A
9 0	1 21	SITE CO	ODE 2	316	003	37 SITE	NVWE 3	Yax.	1011	Lanc	× 1,1			
		DISPOSA	AL METHO	D 1/3	O S NEUT	79 RAL 12 AT 10N	METHO	D <u>32 3</u>	s Iration		8 2	0 87		
		STATUS	$\frac{2}{34}$ S	TART DATE		37 38	$\frac{1}{39} \frac{0}{40}$	EXP	IRATION	DATE	- G/4	44 75 40		•
,		SIGNATI	URE	(SITE	OWNER)	rive		S16	NATURE	11/24	SITE (MER	ATOR)		•
	2	SITE C	ODE			, SITE	NAME .				J 			
	21			D		79 RALIZATION		D	_					
		STATUS	s	30 31 TART DAT	E	/ 37 38 /		37 3 EXP	3 IRATION	DATE _	1 47 / 43	/		
		SIGNAT				37 38	39 40	SIG	NATURE					
	_	- · · · · ·		•	OWNER)		NAME			(SITE COER	ATOR)		
-	3 21	STIF C	72 AL NETHO			SITE	NVWE					<u> </u>		
		DISPUS	AL AETHU	D 30 31	NEUI	RALIZATION	(ME I I I I	32 3		DATE	•	, .		
				ART DATE	35 36	37 38 /	9 40		IRATION NATURE	UATE 4	1 42 43	45 46		
		SIGNAT	UNE	(SITE	OWNER)			210	INTONE		SITE C'ER	ATOR)	•	
	4 21	SITE C	ODE			3712 es	NAME							
		DISPOS	AL METHO)D 30 31	NEUT	RALIZATION	NETHO	32 3	_				٠.	
		STATUS	<u>34</u> ST	ART DATE	<u>35</u> 36	37 38 /	39 40	EXP	ÍRATION	DATE	$\frac{1}{1} \frac{1}{42} \frac{1}{43}$	3 44 45 40		. ".
	٠	SIGNAT			OWNER)			216	NATURE		SITE OFER			
	5	SITE C	ODE	•		SITE	NAME			` 				
	21					79 RALIZATION		D						
		STATUS	S1	ART DATE	/	37 38 /		E XP	3 IRATION	DATE _	/_	3 44 / 45 46	•	-,
		SIGNAT	URE	(SITE	. 38 es.	37 38 	J9 .40	SIG	NATURE	 ,	11 42 4; 2141 XV	3 44 45 46 537507DE/) II	
	•			(2115)	OWNEK)	•				(211F 0cF)	RATORIRE (7EIA	ヒリ
		ADM-10	67 (REV.	. 7/78)	(REV. 3/7	'9)						JUL	2119	380
					•	•								

SUBURBAN LABORATORIES, Inc.

CHEMICAL ANALYSTS SINCE 1936

4:40 LITT DRIVE . Phone 312/544-3260 . HILLSIDE, ILLINOIS 60162

NO	6501	

ANALYSIS REPORT

917
1:31
1.7
171

ANALYSIS CERTIFIED BY:

Attn: Mr. Dan Smith Stryker International 301 E. Kensington Avenue Chicago, Illinois 60628

P.O.	No.	

7 /	1/00		_		•		
Sample Recd	1/80		ests Completed7	(10.5 <u>0</u>		·	
_	•	SAMPLE INF	ORMATION				
Source #6501 - S1u	dge - Paxtor La	andfill (U.S					•
5001Ce					·	7)	
	CLEAR	N UP, 1	23ro + COMAG	E GR	DUC, CH	I //	Smith.
						<i></i>	7
Comments		·	+ by: 1'GA				
Sampling Method: By Client	X By Sub.	. Lab	Serco Auto-Sai	upler		Other	
		ANAL	YSIS		Raw	Leach	
	(50)						
	6501				6501	6501	
Total Solids 证 就致知	97.51		Hitrogen-Tot	/I		·	
Fix. Tot. Sol. mg/1			Nitrogen Amm	me /1			
Vol. Tot. Sol. mg/l Diss. Solids mg/l			Nitrogen-Org	mg/1			
			Nitrite	_mg/1	DE	CEIVE	
Settle, Sol. ml/l Tot, Sus, Sol. mg/l			Phosphate (Total)	mg/1	I.\L	-V-1-V-1	
Fix. Sus. Sal. mg/1			Phasphate (Ortho)	mad		9 1 100	
Val. Sus. Sal. mg/1	-		Sulface	-mg/1	J	UL_21_198	łU
			Sulfide	mg/l		D.	0.0
BCD mg/l			Sulfite	ma I	E.P	.A.—D.L	12-6
COD mg/I			Aluminum	mg'i	STA	TE-OF-ILL	14 615
DO mg/1			Antimony	mg [
			+Aisonic min	497.17	25,9		
Phenols ug/1			Barium	WAXX	6.85		
ABS or LAS mg/1			Beryllium	mg/l			
Oils & Greeses · mg/1			Boron	ma/l	<u> </u>		
			Codmium PIR	40.33	35.7		
Tot. Boct. Cells/100 ml			Calcium	mazil			
Tot. Coli. Cells/100 ml			Chrom-Total	4.4. (1/	_126		
Fecal Coli. Cells/100 ml			Chrom-Hex.	mg 1			
% Ash	52.7		Chrom-Tri.	mg/1			
Spec. Cond.	5.8		Copper Pro	(3,	260		
Alkalinity mg/l us CaCO3		 	1108 	mg/f			
Acidity mg/1 as CaCO3			Lead 1772	P.Off.	928		
Tot. Hard. mg/1 as CaCO3			Magnesium	mg/i		·	
Resid. Clo mg/1			Manganese	mg 1		`	
Bromide mg/1	· · · · · · · · · · · · · · · · · · ·		Mercury 1919	×0.41	/1.05		- -
Chloride mg/1			Nickel ppp		13.5		·
Fluoride mg/1			Patassium	mg 4			
Cyonide- Total TIM XXX	1.69		Silver	17 Kgm	2,34		
Cyanida-Frae mg/1			Sodium	mg 1			
+ Selenium	3,65		Strontium	mg/1			
Flash Point °F	> 21 2° F		Tin	mg 1			
L		// ///	• • • • • • • • • • • • • • • • • • • •			42.8:	l
Our methods are	in accordance	American P	25	Standa Standa			

PERMIT ISSUED

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND/NOISE POLLUTION CONTROL SPECIAL WASTE DISPOSAL APPLICATION

HAZARDOUS

CARD TYPE	DATE 7-17-80 LPSWC AUTHORIZATION NUMBER 30/12/23 CODE 4 (Agency Use) (77/17/18	180
	WASTE HAULER	ি বিভাসতা :
1 6	HAULET REGISTRATION NUMBER 0046 NAME U.S. Drum Corp.	. • •
8 7	ADDRESS 391 E. Kensington COMMUNITY Chicago	
	ADDRESS 391 E. Kensington COMMUNITY Chicago COUNTY COOK STATE III. ZIP 60628 AREA CODE 312 TELEPHONE 785-044	3
	WASTE GENERATOR	
	CODE 03/6005606 NAME U.S. Scrap - site cleanup	_
	ADDRESS 123 PD + COTTAGE GROVE COMMUNITY Chicago	
	COUNTY COOK STATE III ZIP 606.28 AREA CODE TELEPHONE	<u>·</u>
	GENERATOR CONTACT NAME	
	DUNS MUMBER SIC CODE	, 65 -
$\frac{2}{6} \frac{0}{7}$	PROCESS NAME Drum Waste-Rubber	
6 /	WASTE CHARACTERISTICS 50	•
	GENERIC WASTE NAME	
40	IUPAC WASTE NAME	50
	TOTAL ANNUAL WASTE VOLUME	<u>7</u>
	TRANSPORT FREQUENCY $\frac{2}{63}$ WASTE CLASS $\frac{2}{64}$ 1 = CUBIC YAPOS 1 = SOLID (Agency Use) $\frac{2}{64}$ 65 2 = GALLONS 2 = SCMI-SOLID	
	1 = CNYE TIME	
	3 = WEEKLY 7 = QUARTERLY 4 = BI-WEEKLY 8 = SEMI-ANNUALLY	
	(Code either "1" for Low, "2" for Medium, or "3" for High as appropriate for columns 21 through 26):	
<u>5 0</u>	INHALATION DERMAL INGESTIVE	.•
67	TOXICITY TOXICITY TOXICITY TOXICITY INFECTIOUS REACTIVITY EXPLOSIVE 20	
•	FLASH POINT 27 2 0 00 F ALPHA RADIATION 31 (pci/L) COPOSITION 37 26	
	1 = ORGANIC 2 = INORGANIC	i
٠.	PERCENT PERCENT TOTAL PERCENT	
	PERCENT PERCENT ACIDITY $\frac{1}{38}$ $\frac{1}{40$	15
$\frac{6}{6}\frac{\dot{0}}{7}$	KEY COMPONENT NAME PERCENT KEY COMPONENT NAME	PERCENT
	1 506 25	· 11 • 5
	3 22	
	$\frac{5}{21}$ $\frac{2}{22}$ $\frac{2}{21}$ $\frac{2}{21}$ $\frac{6}{49}$	· 1 1 ;
C	Forditioned Approval: RECEIVED RECEIVED	
	Material must not be SEPS-1990	•
	A SELLO 1000 HILL OF FROM	
	is pector is present. ILL. E.P.A D.L.P.C. STATE OF ILLINOIS E.P.A D.L.P.C. STATE OF ILLINOIS	
	Kepvice 27 Mr. auranes	
	notice.	

CARD TYPE	DATE	7-17-80 LPSWC AUTHORIZATION NUMBER WASTE CHARA	ACTERISTICS	TRANS OF CODE (/	ATE ENTERED Agency Use)	10 / 17 18 / 1P 20
7 0 6 7.	METAL CN Ag		CEY TOTAL		(PPM)	. 11
	As Ba Cc Cr	<u>57</u> 1.6 Pb Se	0 6	7.8		
8 0 7	L#30 CERT	RATORY NAME IF 1 CATION NUMBER	REVIEWED BY:	JTS1:	rl Togra S	- Carren
907	1 21	IFICATION NUMBER SITE CODE D 3 1 6 0 0 3 3 SITE NAME EISPOSAL METHOD D 3 3 NEUTRALIZATION METHOD STATUS A START DATE 15 6 37 38 39 40 SIGNATURE SITE CODE SITE NAME SITE CODE SITE NAME	Saxtern 32 33 EXPIRATION I SIGNATURE	DATE OF ATTEMPT	8 8 1 49/ 49/ 49/ 11/10R)	
	21	STATUS START DATE / JS 36 / 37 28 / 39 40 SIGNATURE (SITE OWNER)	37 33 EXPIRATION I	DATE / 41 42 4	3 44 / 45 46 RATOR)	1 (188) 10 (188)
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E.P.A. — D.L.P.C. STATE OF ILLINOIS

SUBURBAN LABORATORIES. Inc. CHEMICAL ANALYSTS SINCE 1936 6284 4140 LITT DRIVE . Phone 312/544-3260 . HILLSIDE, ILLINOIS 60162 P.O. No. ___ . Attn: Mr. Dan Smith Stryker International 391 E. Kensington Avenue Chicago, Illinois 6/25/80 Tests Completed 7/15/30 Sample Recd. SAMPLE INFORMATION #6284 - U.S. Scrap Sample Source RUBBER CLEAN UP 12320 CUTINGE GOOVE + bv 11GA Comments_ X By Sub. Lab._ Sampling Method: By Client ____ Serco Auto Sampler _____ Other. **ANALYSIS** 6284 6284 mg/L Total Solids XIXXX 55.95 Nitrogen-Tot Fix. Tot. Sol. mg/1Nitrogen-Amm mg/I Vol. Tot. Sol. mg/1 [mg/1 Nitrogen-Org Diss. Solids mg/l Nitrite mg/I Settle, Sol. Nitrate m1/Img/1 $mg\sqrt{1}$ Tot. Sus. Sol. mg/IPhosphate (Total) JUL-2-1-1980 Fix. Sus. Sol. mg/1Phosphote (Ortho) mg/1mq/1Vol. Sus. Sol. mg/1Sulfate E.P.A. - D.L.P.C. Sulfide mg/1STATE OF ILLINOIS Sulfite mg/1 BOD mg/1mg/1Aluminum mail COD mg/1Antimony mg/1DO Misenic. $\chi \chi \chi \chi \chi$ 36.1 Phenols ug/I __'Julu: __''*\in\in\in\in* mg/I Beryllium ABS or LAS mg/I Oils & Greeses mg/l Boton Cadmium X30X 1. 0.21Calcium mqZITot. Bact. Cellis/100 ml Tot. Coli. Chrom-Total 75.5X.X Ce#1s/100 ml מתויו ..6.26_ Fecal Coli. Cells/100 ml Chrom-Hex. mg/4 Chrom-Tri. mg/1% Ash 0.15 pН Copper Dian KingX 7,27 4.6. Spec. Cond. lion mg/1 Alkalinity mg/1 as CoCO3 L_{cod} PRIME Acidity mg/I =s CaCO3 Lithium mg/1 as CaCO3 Tot. Hard. Magnesium mg/1 Resid. Cla mg/1Manganese $mg/{\frac{1}{2}}$ mg/I Like ZotkX Bromide Mercury 1,01 mg/l Chloride Nickel Lbm 7939.X 14.2 Fluoride mg/I Potassium mg/1 Cyanide Total prun Silver χϑΧ XXXXX 0.602 Cyonide-Free

7/16/80 ch ANALYSIS CERTIFIED BY: _ Date: _ .. Director

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Our methods are in accordange with

+Selenium

Flash Point

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Strontium

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he Health Association, Standard Methods 14th Edition,

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND/NOISE POLLUTION CONTROL SPECIAL WASTE DISPOSAL APPLICATION

HAZARDOUS

CARD TYPE	ETTE $\frac{7 - 17 - 80}{1 - 19} \stackrel{L}{=} \frac{P \times W}{5} \stackrel{C}{=}$ AUTHORIZATION NUMBER $\frac{89}{6} \frac{17 - 9}{13} \stackrel{TRANS}{=}$ DATE ENTERED (Agency Use) $\frac{1}{15} \frac{1}{16} \stackrel{T}{=} \frac{1}{17} \frac{1}{18} \stackrel{T}{=} \frac{1}{15} \stackrel{TRANS}{=} \stackrel{TRANS}{=} \frac{1}{15} \stackrel{TRANS}{=} \frac{1}{15} \stackrel{TRANS}{=} \frac{1}{15} \stackrel{TRANS}{=} \frac{1}{15} \stackrel{TRANS}{=} \frac{1}{15} \stackrel{TRANS}{=} \frac{1}{15} \stackrel{TRANS}{=} \stackrel{TRANS}{=} \frac{1}{15} \stackrel{TRANS}{=} \frac{1}{15} \stackrel{TRANS}{=}$	"פל פו
	WASTE HAULER	.5 .0
<u>1</u> <u>6</u>	FAULER REGISTRATION NUMBER 00 46 NAME 11.5. Drum Corp.	
6 7	ADDRESS 391 E. Kensington COMMUNITY Chicago	
	COLATY COOK STATE III. ZIP 60628 AREA CODE 312 TELEPHONE 785-044.	3
	WASTE GENERATOR :	
	CODE 03/600560 G NAME U.S. Scron - = 172 c/enaup	
	ADDRESS 123RO + COTTAGE GROVE COMMUNITY Chicago	
	FOUNTY COOK STATE III ZIP 60638 AREA CODE TELEPHONE	
	GENERATOR CONTACT NAME	
	EUNS NUMBERSIC CODE	65
<u>2</u> <u>0</u> .	FROCESS NAME Drum Waste-OII	•
6 7	WASTE CHARACTERISTICS	•
	GENERIC WASTE NAME	
40	IUPAC WASTE NAME 80	
7	TOTAL ANNUAL WASTE VOLUME $\frac{21}{51}$ VOLUME UNITS $\frac{2}{61}$ WASTE PHASE $\frac{3}{61}$	
	TRANSPORT FREQUENCY A WASTE CLASS 1 = CUBIC YARDS 1 = SOLID	
	(Agency Use) $\overline{64}$ $\overline{65}$ 2 = GALLONS 2 = SEMI-SOLID $\overline{1}$ = DNE TIME 5 = MONTHLY 3 = L10UID	
	2 = DAILY 6 = BI-MONTHLY 4 = GAS 2 = WEEKLY 7 = QUARTERLY	
	4 = SI-WEEKLY 8 = SEMI-ANNUALLY	
	(Cod⇒ either "1" for Low, "2" for Medium, or "3" for High as appropriate for columns 21 through 26):	
$\frac{5}{6} \frac{0}{7}$	INHALATION DERMAL INGESTIVE TOXICITY TOXICITY INFECTIOUS REACTIVITY EXPLOSIVE	
	FLASE POINT 200° F ALPHA RADIATION(pCi/L) COMPOSITION 2	
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	2 = INORGANIC	
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		ADM-10	67 (REV.	. 7/78) (1	REV. 3/79)										
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E.P.A. — D.L.P.C. STATE OF ILLINOIS

SUBURBAN LABORATORIES, Inc.

CHEMICAL ANALYSTS SINCE 1936

4140 LITT DRIVE • Phone 312/544-3260 • HILLSIDE, ILLINOIS 60162

ANALYSIS REPORT 801769

NO. 6502	- -
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P.O. No. ___

Date: 7/16/80

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 Attn: Mr. Dan Smith Stryker International 391 E. Kensington Avenue Chicago, Illinois 60628

ANALYSIS CERTIFIED BY: ____

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mple Recd		700	S.F		ests Completed ORMATION	3	10/00			
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ource#	6502 - Oil	Paxton-La	ndfill	(H-S-Scr	apl					·
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ampling Metho	od: By Client	Х ву 9	Sub. Lab.			∆uto-Sar	npler		_ Other	
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		6502	ļ		ļ			6502	6502	
T-1-15 1:1	0/1.				 		~	0302	- 0302	
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Vol. Tot. Sol.	mg/1 mg/1				Nitrogen-Am Nitrogen-Org		mg/1 mg/1			
Diss. Solids	mg/1				Nitrite		mg/1			
Settle, Sol.	m1/1				Nitrate		mg/1		RECE	WED-
Tot. Sus. Sol.	mg/1				Phosphate (Lotal)	mg/1		When the last	V-L-U-
Fix. Sus. Sol.					Phosphate (<u>-</u>	mg/1		JUL 21	1020
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BOD	mg/l				Sulfite		mg/1		E.P.A)
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DO	mg/l		-		Antimony		mg/I			
		<u> </u>			+Arsonic	Dim	XXXX	0.199		
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å_Ash _р н		0.95			Chrom-Tri.			·		∤ -
Spec. Cond.		4.1			Copper	ppm	// <i>K</i>	455		
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	/1 as CaCO3				Lead Lithium	mqq		1,566	291	
	g/1 os CoCO3				Magnesium		mg/1			
Resid. Cl ₂	mg/l				Manganese		mg/1			
Bromide	mg/1				Mercury		KKRY.	10.664		<u> </u>
Chloride	'mg/1				Nickel	գդգ	zzzz. Zkra	. <u>/</u> 0.664 0.85		<u> </u>
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Cyanide - Total	ppm nag	10.9			Silver	תוכונו		5.41		
Cyonide-Free	mg/l				Sodium	f- h-ur	mg./1			
+Selenium	ppm,	0.302			Strontium		mg/I			
Flash Poin		212°F			Tin		mg/l			
					Zine			2,065	51.0	1

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND/NOISE POLLUTION CONTROL SPECIAL WASTE DISPOSAL APPLICATION

FORWARD TO: PERMIT ISSUED PAXTON LANDFILL CORF 12201 SOUTH OGLESBY CHICAGO, ILLINOIS 60633

CÅRD Type	DATE 6-24-80 LPSWC AUTHORIZATION NUMBER SULL CODE 4 (Agency Use) 15 16 1 7 18	180	
	WASTE HAULER	19 20	
$\frac{1}{6} \frac{6}{7}$	HAULER REGISTRATION NUMBER 0046 NAME 115 1101 COXP		
6 7	ADDRESS 391 E. Kensington COMMUNITY Chicago		
	COUNTY COOK STATE III ZIP 60528 AREA CODE 31.2 TELEPHONE 785-044	0	
	WASTE GENERATOR		
	CODE 03/6000560 G NAME 215. Derap-site cleary		-
	ADDRESS: 123rd & Corrage G. See COMMUNITY Character		
•	ADDRESS: 123 A & COTTAGE G. SE COMMUNITY CAME TELEPHONE " COUNTY COOK STATE III ZIP 60621 AREA CODE TELEPHONE "		_
	and the same of th		
,	DUNS NUMBER: SIC CODE	65	
20	PROCESS NAME Waste Sludge Ditch	٠	
٠.	WASTE CHARACTERISTICS		
	GENERIC WASTE NAME		
40	TUPAC WASTE NAME	60	
0 ,		2	
	TRANSPORT PREQUENCY WASTE CLASS / 1 - CUBIC YARDS 1 = SOLID		,or
	1 = ONE TÎME 5 = MONTHLY 2 = DAILY 6 = BI-MONTHLY 3 = LIQUID 4 = GAS 3 = WEEKLY 7 = QUARTERLY	. See Proper	
	3 = WEEKLY	·	
	(Code either "1" for Low, "2" for Medium, or "3" for High as appropriate for columns 21 through 26):		
5 0	INHALATION DERMAL INGESTIVE		
6 7	INHALATION DERMAL INGESTIVE TOXICITY TO	$\chi^{2n-3}:$	
: .	FLASH POINT COMPOSITION (pCi/L) COMPOSITION		
	I = ORGANIC 2 = INORGANIC		
	PERCENT		
	PERCENT TOTAL PERCENT ASH CONTENT SOLIDS AT 52	- 55	
6 0		PERCENT	
. 6 /	1 5/udge Woste 100. 2 43 44 47 48 49	· •	77
	3 3 4 4 4 4 7 6 70	;	77
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Conditioned Approval Material must not be moved unless IEPA

RECEIVED

JUN 26 1980

E.P.A. — D.L.P.C. STATE OF ILLINOIS

CARD	7709	L P S W C AUTHORIZATION NUMBER 8	TRANS DATE ENTERED CODE (Agency Use)	1
	DATE	•	ACTERISTICS (Agency 635)	16 17 18 19 20
` <u> </u>	METAL		KEY TOTAL (PPM) LEACH (PPM)	
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ġ d∙	1	50 SITE CODE 03 16 0 0 3 3 SITE NAME	10 x ton 60 mid 1.	- Mariagn
ਰ ੱ	"द्रा	DISPOSAL METHOD 0 / NEUTRALIZATION METHOD	40 G 12 E 13 H	
- •		STATUS A START DATE, 00/18/50	EXPIRATION DATE	
,		STATUS A START DATE, O. O. T. S. S. S. S. S. S. S. S. S. S. S. S. S.	SIGNATURE Sign to Smith	
			(SITE OPERATOR)	
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i si		(SITE OWNER)	(SITE OPERATOR)	
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		STATUS START DATE 36 36 37 38 39 40	37 33 EXPIRATION DATE 41 42 43 44 45 48	
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		(SITE OWNER)	(SITE OPERATOR) ECE	IVED

ADM-1067 (REV. 7/78) 海径V. 3/79)

JUN 26 1980

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RECEIVED JUN 26 1980 E.P.A. — D.L.P.C. STATE OF ILLINOIS

FORWARD TO: PAXTON LANDFILL CORP. 12201 SOUTH OGLESBY CHICAGO, ILLINOIS 60633

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND/NOISE POLLUTION CONTROL SPECIAL WASTE DISPOSAL APPLICATION

PERMIT ISSUED HAZARDOUS

JUN 26 1980

E.P.A. — D.L.P.C. STATE OF ILLINOIS

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CÀRD TYPE	DATE 6-24-80 LPSWC AUTHORIZATION NUMBER 2 TO TRANS A CODE A CAGENCY (Agency)	RED (17 18 19 20
	WASTE HAULER	
$\frac{1}{8} \frac{6}{7}$	HAULER REGISTRATION NUMBER 0046 NAME 45. Drum Corp.	
6 /	ADDRESS 391 E. Kensington COMMUNITY Chicago	<u>'</u>
	COUNTY COOK STATE III. ZIP 606.28 AREA CODE 312 TELEPHONE	785=0440
	WASTE GENERATOR	
	CODE 13/6000540 G NAME 215. Derap - 5, Te	s/deadp
	ADDRESS 123 & Cottage Grave COMMUNITY Chicago	/
	ADDRESS 123 A COHOGE STATE III ZIP 60628 AREA CODE TELEPHONE	<u> </u>
	GENERATOR CONTACT NAME	
•	DUNS NUMBER STC CODE	65
20	PROCESS NAME Waste Sludge Silo	
•	WASTE CHARACTERISTICS	50 .
	GENERIC WASTE NAME	
4 O	IUPAC WASTE NAME	80 .7
•	TOTAL ARNUAL WASTE VOLUME 11 1 3 0 0 0 VOLUME UNITS 2	
	TRANSPORT FREQUENCY 2 WASTE CLASS 17 1 = CUBIC YARDS	1 = SOLID 2 = SEMI-SOLID
	1 = ONE TIME: 5 = MONTHLY 2 = DAILY - 5 = RI-MONTHLY	3 = LIQUID
(.v	1 = ONE TIME 5 = MONTHLY 2 = DAILY 6 = BI-MONTHLY 3 = WEEKLY 7 = QUARTERLY 4 = BI-WEEKLY 8 = SEMI-ANNUALLY	4 - 685
	(Code either "1" for Low, "2" for Medium, or "3" for High as appropriate for columns 21	thunuah 25 li
e. Em		cin ough 20 /
5 7	TOXICITY TOXICITY TOXICITY INFECTIOUS REACTIVITY	EXPLOSIVE
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:	Conditioned Approval:	FIVED

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CARD TYPE	DATE	6-21-80 LPSNC AUTHORIZATION NUMBI	ER .	TRANS DATE ENTERED (Agency Use)	//
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	As	05	Ni <u>06</u>	9.8	
	Ba	07	Pb <u>08</u>		•
	Cd	09	Se <u>10</u>		
	Cr	11. 22. 290.0	Zn <u>1 2</u>	315.0	
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	CERT	IFICATION NUMBER	REVIEWED BY:	III	208agh
9 Ó	<u>1</u> 21	IFICATION NUMBER SITE CODE 0 3 16 00 3 3 SITE P	IAME Taxton A	(and fill	J
-		DISPOSAL METHOD O / NEUTRALIZATION STATUS START DAIE 8 20 8	METHOD 32 33		
•		STATUS START DATE	37 33 EXPIRATION D	DATE 91/42 48/44 45 146	
		SIGNATURE ALL STREET OWNER)	SIGNATURE	(SITE OPERATOR)	
	2.	SITE CODE	IAME	· · · · · · · · · · · · · · · · · · ·	
	21	DISPOSAL METHOD NEUTRALIZATION	METHOD		ı
		STATUS 73 START DATE / 37 38 / -	22	DATE//	<i>.</i>
		A + K 1 4 O 1 13 F	39 40 SIGNATURE		, act of
		SIGNATURE (SITE OWNER)		(SITE OPERATOR)	** **********************************
	$\frac{3}{21}$	SITE CODE SITE I	IAME		,
		DISPOSAL METHOD NEUTRALIZATION	22 22		
:		STATUS OF START DATE 35 36 37 38 39 SIGNATURE	EXPIRATION E	DATE 41 42 43 44 45 46 .	1
		(SITE OWNER)	SIGNATURE	(SITE OPERATOR)	
	4 21	SITE CODE SITE N	IAME		
		DISPOSAL METHOD NEUTRALIZATION			*
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		AU1-1067 (REV. 7/78) (REV. 3/79)		1 \ La \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
		ADI-1067 (REV. 7/78) **(&EV. 3/79)		JUN 26 1	980

E.P.A. — D.L.P.C. STATE OF ILLINOIS

Additional information

Pheno1 989.0 mg/1

Fe 8020.0 mg/1

Mg 71.6 mg/1

RECEIVED

JUN 26 1980

E.P.A. — D.L.P.C. STATE OF ILLINOIS





10	AIE: 2 this class
FRÒM:	☑ Information only
SUBJECT: COOR CO 03160022 CHICAGO / 115 SCRAP	Response requested
The site Reference to As U.S. Scrap is located at 119	th si E Cottage
Grove in Chicago. The problem of waste on site in drow	·
grain elevations, located on Penn Central property Was noted b	
Chicago E the Metropolitan Sanitary District in 1974. Atte	
voluntary clean-up of the site were unsuccessfull which persulte	
Action in Early 1975. A court order was subsequently issued	
Clemany of the site.	
IL EPA, in Jone 1980 December information that a possible	e Hazardous
Where site existed at the same location. Subsequent investigation reverse	
grain Elevator contained liquid sulfide waste, and concrete store	
lifuid waste containing, Chromium, Lear, Zinc, Cyanide and a Admium.	Appreximately
100 chans containing waste were ALSO on site, and a drainings ditch	andrived studge
containing Cyanide, chromian, leap. & Nichel. Las test showed that	
contained the following: polymers, metal studges, lab wastes, oils, paint	Einle wastes.
The sulfide waste was removed during the period of 424-27, 19	
monitoring, Penn Cerdnal was responsible for the cleanup. During	this period
325,000 games of waste wasse resmoved to An Approved landfill. T	
Studge was subsequently removed. Desulting from Efforts by M.S.	
further cleanup was effected including sensure of drums & studge,	
Otch. Behoven 1-1-78 & 12-11-80, twenty-three trips were MADE &	7
verse obtained on two occasions.	
The agency is continuing it maintoning of the site the	ough use of
modition wells installed on site. In appirion, Soil Testing Services,	as contracted
to provide an evacuation of the Potential Contamination At this site:	
subject to test borines and test pit exemuntion, The pesults of which w	



ILLINOIS ENVI			•		
TO:				DAT	E:
FROM:	· · · · · · · · · · · · · · · · · · ·		· .		Information only
SUBJECT: US Seizi	AP-Continued	<u>, </u>			Response requested
	The pesults sh	owed High	the nnea	is "sev	erzely
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•	MAS bEEN ALTERED	_			
included with SEV	unal other asses	to be fille	d prainst	the U.S. Sc.	RAP OWNER
NA. S. Maretell.				a start starting some resident starting	
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·井.MC	-C,-472 13 C-475	/VOM	Kerikeen Kingensy
	Name of the second	-HAZAF	must be netjostily
I		ILLINOIS ENVIRONMENTAL PROTECTION AGEN DIVISION OF LAND/HOISE POLLUTION CONTR SPLCIAL MASTE DISPOSAL APPLICATION	mitrick home ormand
CARD TYPE	DATE 6/27/80 LPSWC	- FERMIT ISSUED, AUTHORIZATION HUMBER 801477 CO	PROJECT AL CIO. RANS DATE ENTERED DDE (Agency Use) 14 17 18 15 25
$\frac{1}{6} \frac{6}{7}$		0075 NAME CHEMICAL WAS	STE Mant. OF ILLINOIS ET CITY
	COUNTY COOK STAT	E ILL. ZIP 60409 AREA CODE 3	12 TELEPHONE 891-1500
	GENERATOR	WASTE GENERATOR	· · · · · · · · · · · · · · · · · · ·
	code <u>131276</u>	OOC PG NAME PENN CENTRA	L CORPORATION.
	ADDRESS 9501 W.	PEVON COMMUNITY KOSE	MONT
		TE \underline{L} . ZIP $\underline{600/8}$ AREA CODE $\underline{3}$	- · · · · · · · · · · · · · · · · · · ·
	GENERATOR CONTACT NAME \int_{36}	MES KONSTANTELL	<u> </u>
	DUNS NUMBER	SIC CODE	
$\frac{2}{6} \frac{0}{7}$	PROCESS NAME # QUEO	US WASTE CLEAN	
			STARAGE TANK.
	51	ALED SULFIDE WE	80 41 4
$\frac{4}{6} \frac{0}{7}$	JUPAC WASTE NAME	150000 WOLLDAY	50 50 50 50 50 50 50 50 50 50 50 50 50 5
		$- \frac{1500000}{\text{MASTE CLASS}} \stackrel{?}{\sim} 750 \text{ VOLUME}$	E UNITS $\frac{2}{61}$ WASTE PHASE $\frac{3}{62}$ UBIC YARDS 1 = SOLID
	TRANSPORT FREQUENCY 63 1 = ONE TIME 5 = MONTHLY	WASTE CLASS $\frac{3}{64}$ $\frac{70}{65}$ $\frac{1}{2}$ = CU $\frac{1}{2}$ = GA	ALLONS 2 = SEMI-SOLID 3 = LIOUID
	2 = DAILY 6 = BI-MONTH 3 = WEEKLY 7 = QUARTERL		4 = GAS
	4 = BI-WEEKLY 8 = SEMI-ANN	UALLY	
	-	" for Medium, or "3" for High as appropriat	te for columns 21 through 26):
$\frac{5}{6} \frac{0}{7}$	TOXICITY DERMAL TOXICITY	INGESTIVE INFECTIOUS INFECTIOUS	REACTIVITY EXPLOSIVE
	FLASH POINT $\frac{2}{2} \frac{2}{2} \frac{1}{2} \frac{2}{2} ^{\circ} F$	ALPHA RADIATION (pCi/L)	COMPOSITION $\frac{2}{37}$
	27 30	3,	1 = ORGANIC 2 = INORGANIC
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5.0	KEY COMPONENT NAME	41 43 44 46 47 47 PERCENT KEY COMPONENT	
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prior written consent of CHEMICAL WASTE MANAGEMENT

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